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5



March 1, 1984

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent of surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1,900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

<u>STATE</u>	<u>ADDRESS</u>
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mexico)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4418 Federal Bldg., 125 South State St., Salt Lake City, Utah 84147
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 -- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 -- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 -- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.

FOR UTAH

FEDERAL-STATE-PRIVATE COOPERATIVE SNOW SURVEYS

PETER C. MYERS

CHIEF

[illegible]

FRANCIS T. HOLT

STATE CONSERVATIONIST

UTAH STATE DEPARTMENT OF NATURAL RESOURCES

DANIEL F. LAWRENCE

State Engineer

Director

Report prepared by Snow Survey Staff

BOB L. WHALEY, Supervisor

Soil Conservation Service

125 So. State, Fed. Bldg.

P.O. Box 11350

Salt Lake City, Utah 84147

PROSPECTIVE WATER SUPPLIES

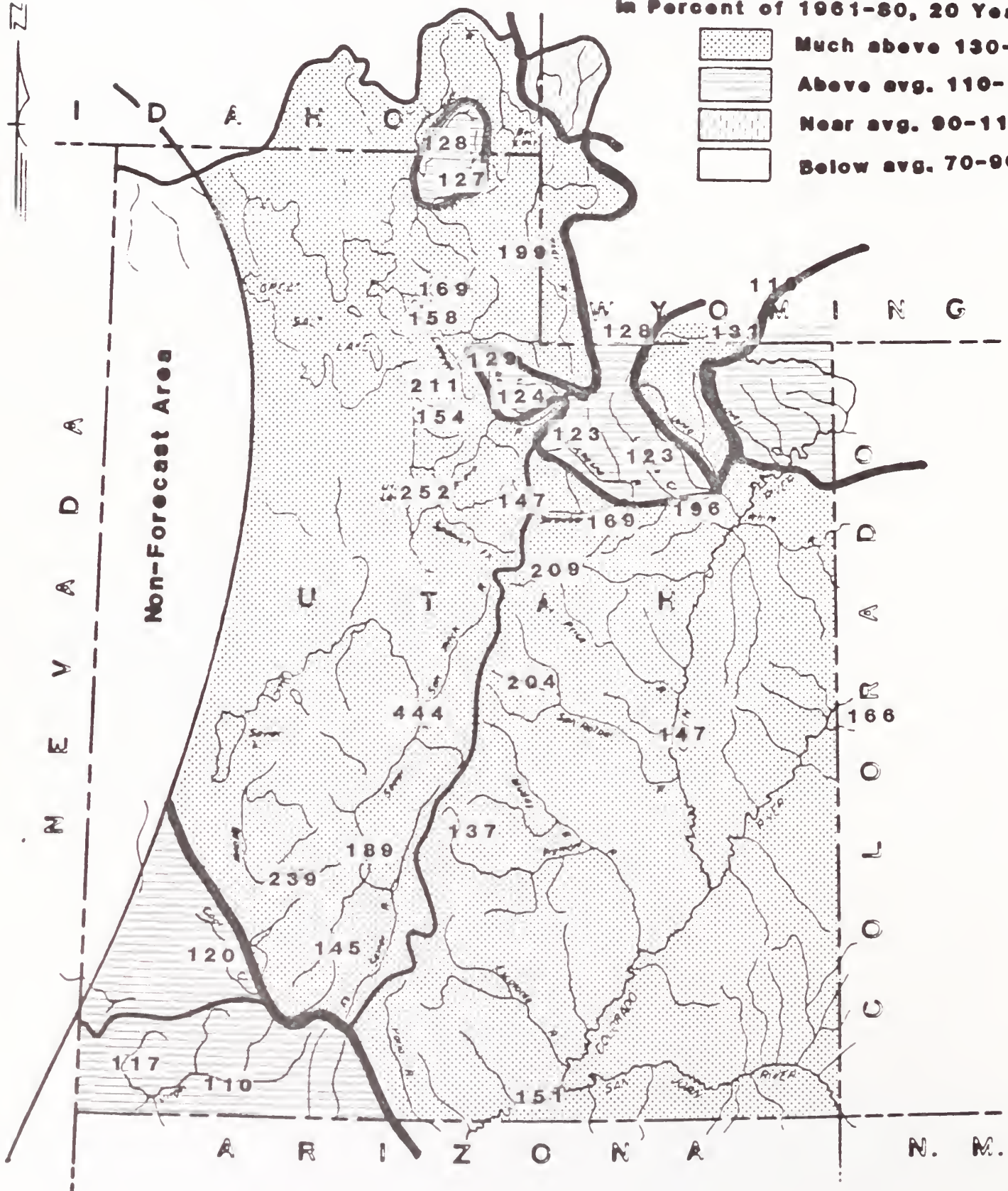
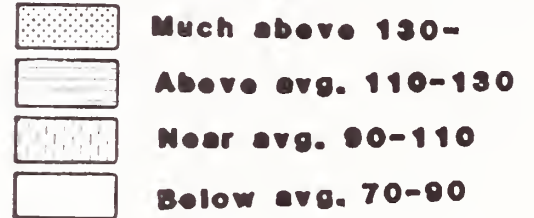
Based on Snow Surveys Made on
UTAH and BEAR RIVER WATERSHEDS

March 1, 1934

Approximate Date



FORECAST STREAM FLOW
In Percent of 1961-80, 20 Year Avg



As of March 1, 1984

* * * * *
* Utah's 1984 Water Supply Outlook ranges from near *
* average to well above average. Snow cover varies from *
* half average in the south western corner to almost *
* twice average in the center of the state. Watershed *
* soils are generally wetter than last year and reservoir *
* storage is above average. Streamflow forecasts *
* generally dropped 5 - 15%. *
* * * * *

SNOW COVER

Snow measurements statewide show a near average increase during February and now range from 49% of average in the Enterprise - New Harmony area to 194% on the upper Fremont River. A heavy snow increase was experienced in a band going through Fillmore to Salina and Loa. Snow Courses in this area picked up a 7 to 8 inch increase for the month. Basin snow cover percentages are as follows: Bear 134%, Logan 128%, Ogden 164%, Weber 138%, Provo - Utah Lake 124%, Duchesne 115%, Price 139%, San Rafael 164%, Fremont 194%, Upper Sevier 88%, Lower Sevier 168%, Beaver 157%, Coal Creek 90%, and Virgin River 74% of the March 1 average.

PRECIPITATION

Precipitation at mountain stations generally ranged from 10 to 15% of average at some stations on the Bear and Black's Fork to 600% at some stations near Fish Lake.

SOIL MOISTURE

Watershed soils moisture is generally above average and wetter than last year except along the southern part of the state.

RESERVOIR STORAGE

Reservoir storage in 27 of Utah's key irrigation structures is 137% of average and 87% of useable capacity. Many reservoirs have been releasing water to provide space for spring runoff.

(More)

STREAMFLOW FORECASTS

Streamflow forecasts have generally dropped from 5 to 20% except on the lower Sevier where they increased as much as 20 to 135% of average.

Forecasts by basin are as follows: Bear, 100% on Smith's Fork to 211% on Big Creek; Ogden, 145% on South Fork to 169% for Pineview Inflow. Weber, 124% at Oakley to 212% for East Canyon Creek; Provo - Utah Lake, 147% for Strawberry Inflow to 252% for Utah Lake Inflow; Jordan River, 139% for Little Cottonwood to 257% for Emigration Creek; Duchesne, 111% for Rock Creek to 196% for the Duchesne at Myton; Price - San Rafael - Muddy, 184% for the Muddy to 221% for the Price at Heiner; Sevier, 145% at Hatch to 673% for the Sigurd to Gunnison reach; Beaver, 239% near Beaver to 393% for Minersville Inflow; Virgin River 110%, and Coal Creek 120%.

The Colorado River is forecast 166% at Cisco and 151% at Lake Powell, Green River is forecast 116% at Flaming Gorge and 147% at Green River.

The potential for high peak flows exists on the Lower Sevier, San Pitch, San Rafael, Price, Beaver, and around Utah Lake and Jordan Rivers.

The Great Salt Lake is expected to peak at 4208.5 feet and Utah Lake 5.5 feet above compromise, the highest ever recorded. Property owners should take precautions to protect property near these lakes.

The above forecasts assume normal precipitation and temperatures during the snowmelt season.

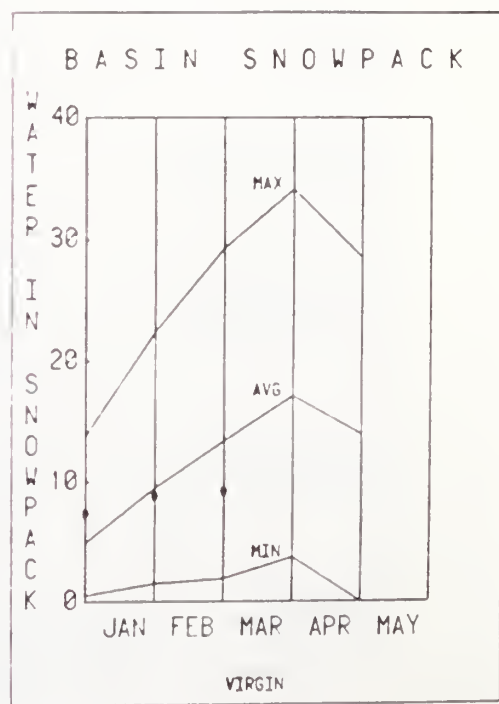
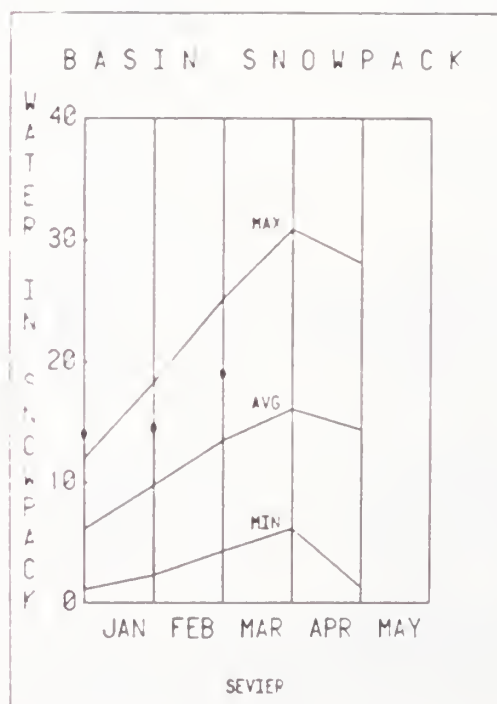
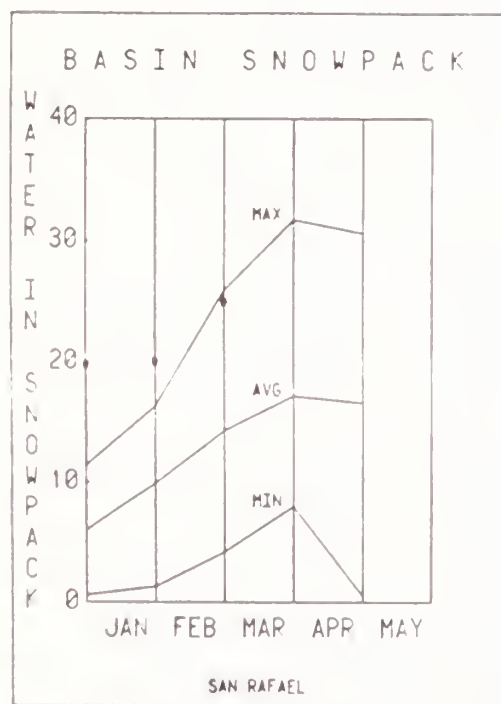
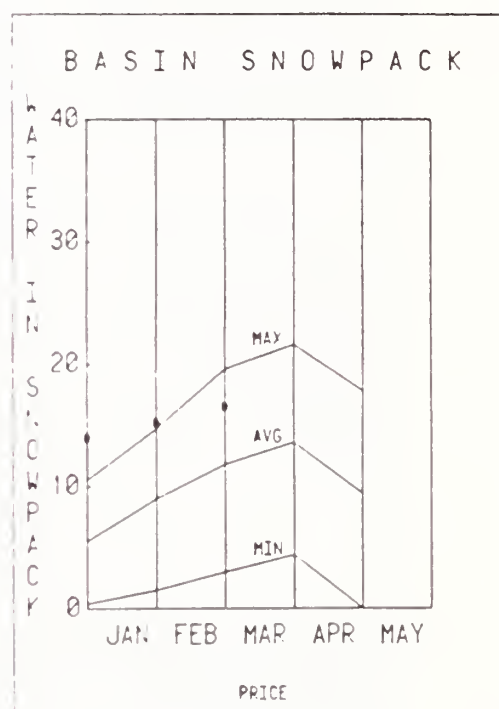
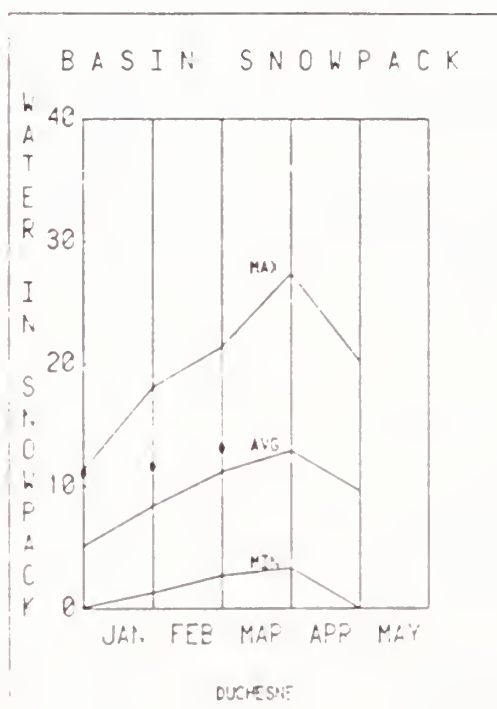
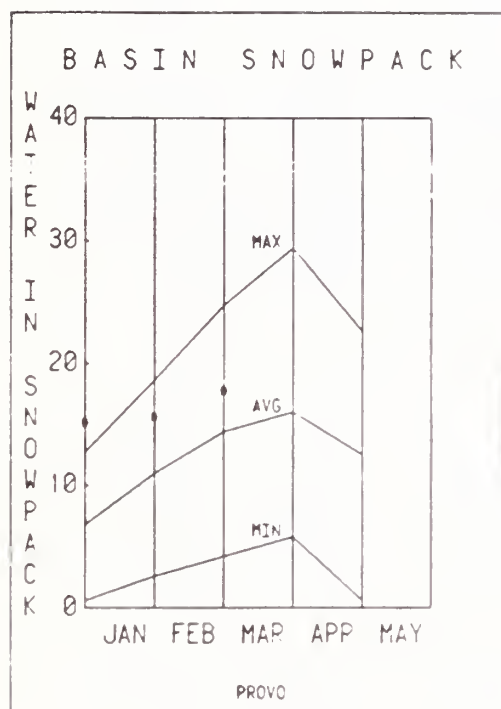
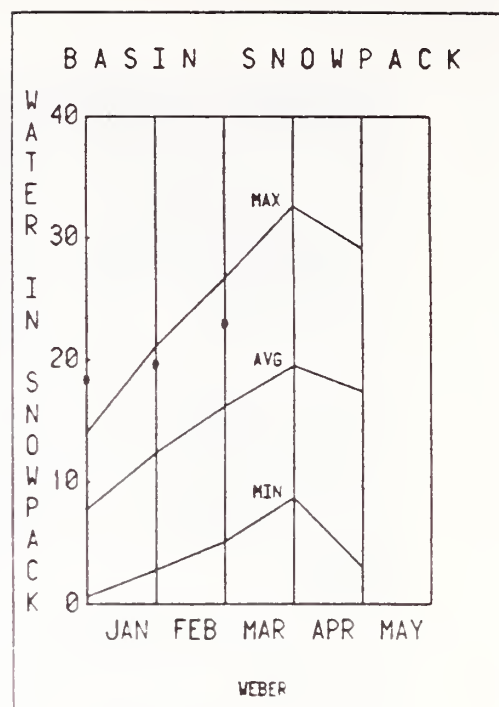
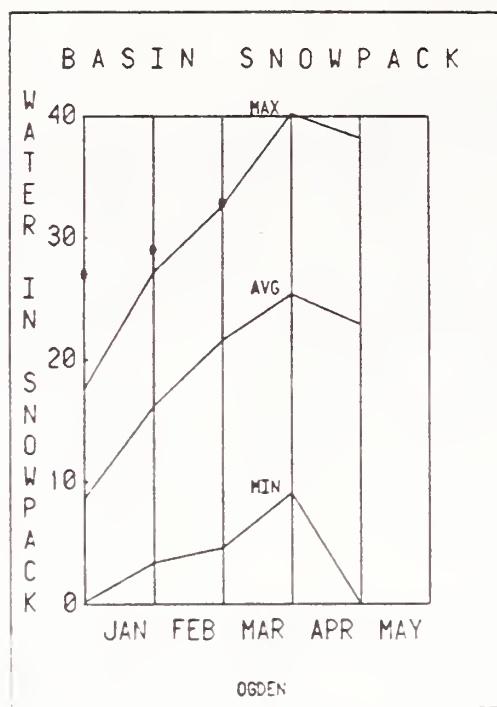
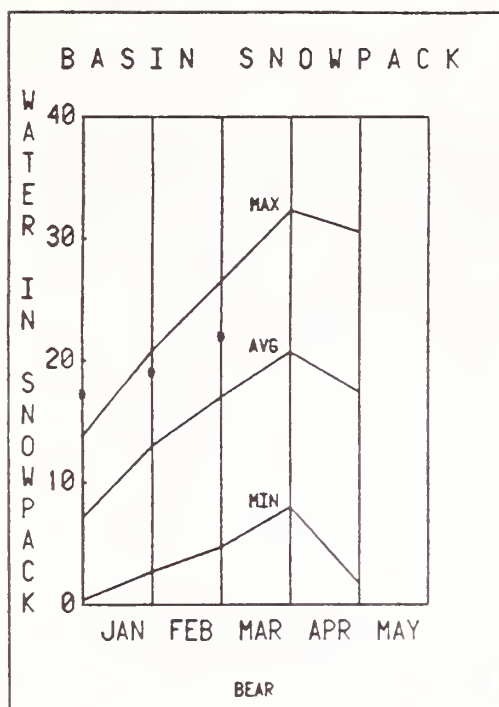
RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
GREAT BASIN					
<u>Bear River</u>	Bear Lake	1421.0	1077.9	1114.1	979.6
	Woodruff Narrows	55.8	55.4	35.1	--
	Woodruff Creek	3.5	3.5	3.5	--
<u>Beaver River</u>	Minersville (RkyFd)	26.0	22.5	24.6	12.9
<u>Little Bear</u>	Hyrum	15.3	10.4	10.3	10.8
	Porcupine	11.3	5.0	4.2	3.7 ^b
<u>Ogden</u>	Causey	6.9	1.4	1.1	2.3 ^b
	Pineview	110.1	21.3	58.2	48.7 ^b
<u>Provo</u>	Deer Creek	149.7	123.7	109.1	95.5
<u>Settlement Creek</u>	Settlement Creek	1.2		1.0	0.7 ^b
	Vernon Creek	0.6	0.6	0.5	0.5 ^b
<u>Sevier River</u>	Gunnison	18.2	13.8	17.0	14.0 ^b
	Otter Creek	52.5	49.0	50.6	31.2
	Piute	71.8	57.1	56.0	41.5
	Sevier Bridge	236.0	208.0	234.0	119.6
	Panguitch Lake	22.3	20.6	20.5 ^a	--
<u>Spanish Fork</u>	Strawberry	270.0	270.0	252.7	142.4
<u>Utah Lake</u>	Utah Lake	883.9	1201.8	1096.7	689.4
<u>Weber</u>	East Canyon	48.1	20.0	40.2	35.6 ^b
	Echo	73.9	24.8	50.0	49.5
	Lost Creek	20.0	4.4	14.1	13.4 ^b
	Rockport	60.9	27.7	46.9	30.2
	Willard Bay	193.3	121.7	155.5	144.7 ^b
COLORADO RIVER BASIN					
<u>Ashley Creek</u>	Steinaker	33.3	26.0	32.6	21.1 ^b
	Red Fleet	26.0	18.1	21.0	--
<u>Colorado</u>	Blue Mesa	829.5	375.0	478.4	--
	Lake Powell	25002.0	21478.0	22231.0	--
<u>Green</u>	Flaming Gorge	3749.0	3151.0	3167.0	--
<u>Lakefork</u>	Moon Lake	35.8	29.1	31.0	16.8
<u>Price River</u>	Scofield	65.8	49.8	48.2	32.2
<u>San Juan</u>	Navajo	1696.0	1352.0	1344.5	--
	Ken's Lake	2.3	1.6	1.0	--
<u>San Rafael</u>	Huntington North	3.9	2.8	3.7	3.0 ^b
	Joe's Valley	54.6	49.1	47.4	44.6 ^b
	Mill Site	16.7	13.5	13.1	4.0 ^b
<u>Strawberry</u>	Currant Creek		5.1	--	--
	Starvation	165.3	95.1	121.4	112.1 ^b
	Soldier Creek	951.4	61.0	46.4	--
<u>Uintah</u>	Bottle Hollow	11.3	11.0	11.1	10.2 ^b

a - Partly estimated

b - Average of past record in average period - less than 20 years

+ - 1961-80 20 year average period



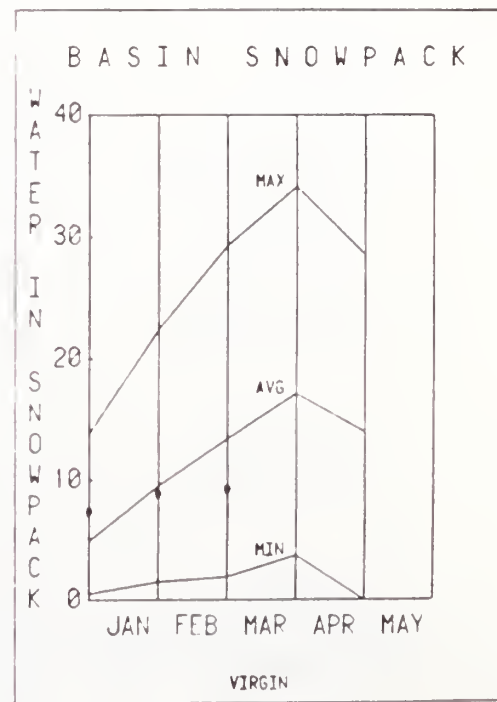
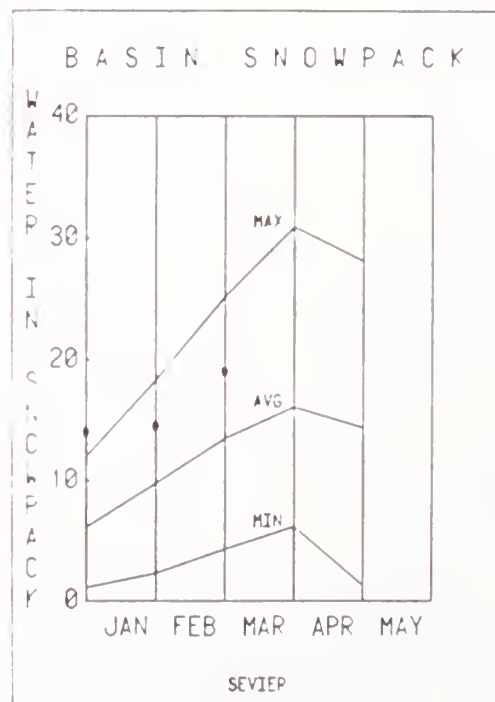
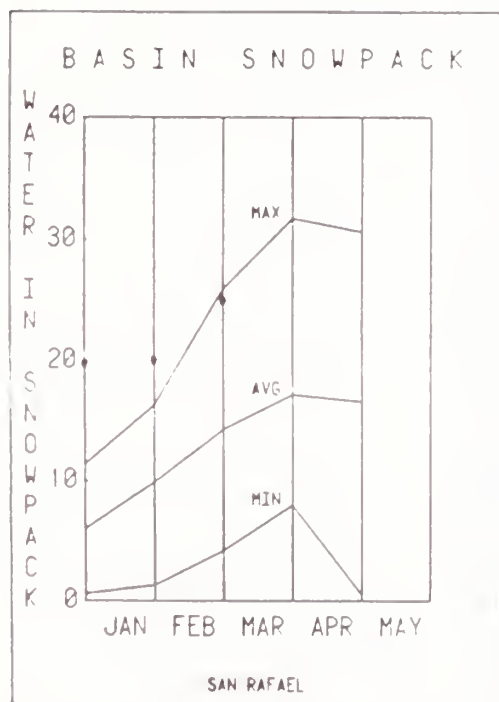
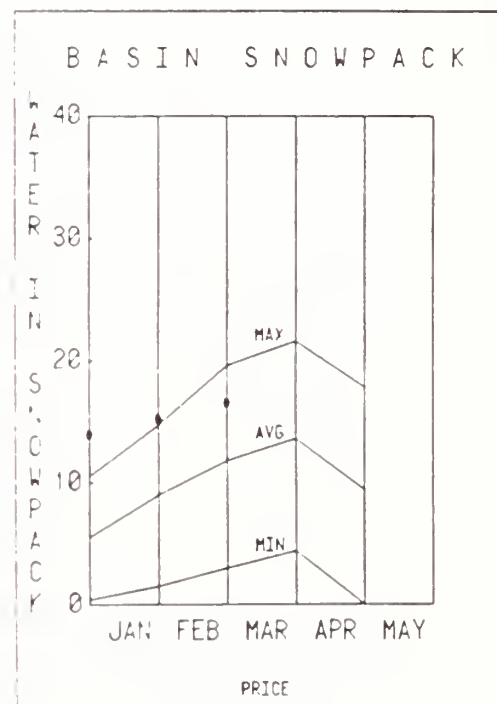
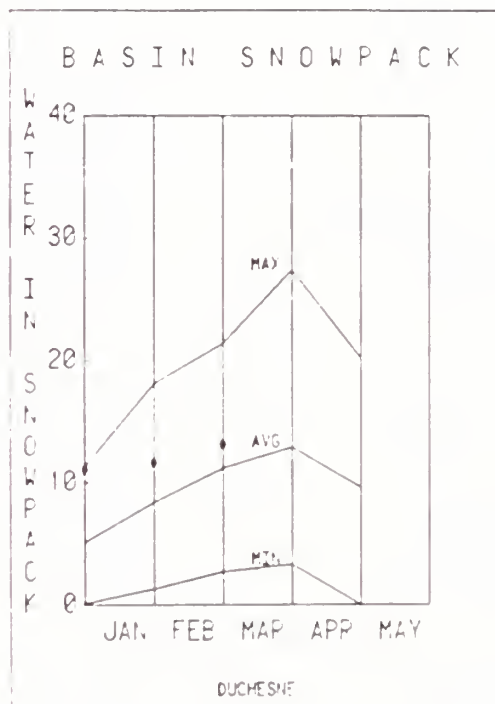
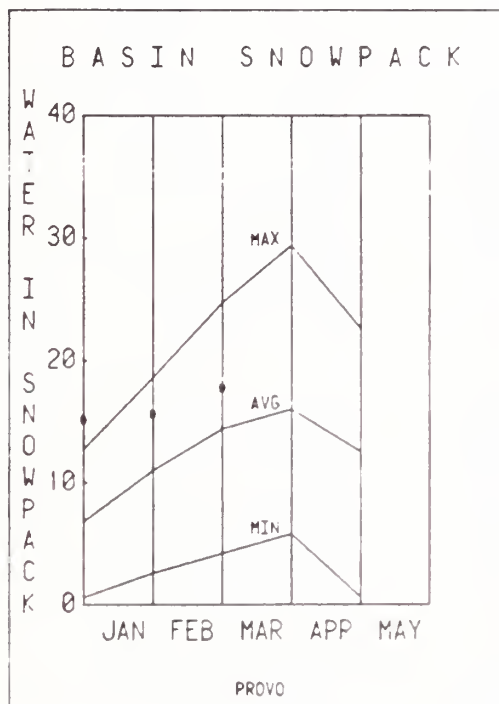
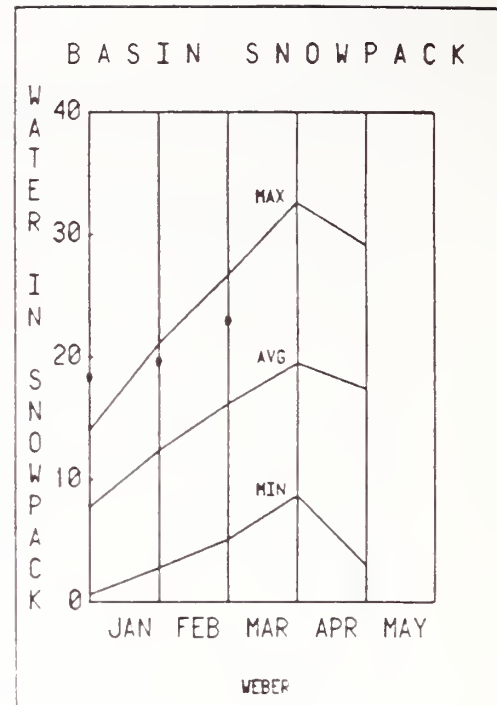
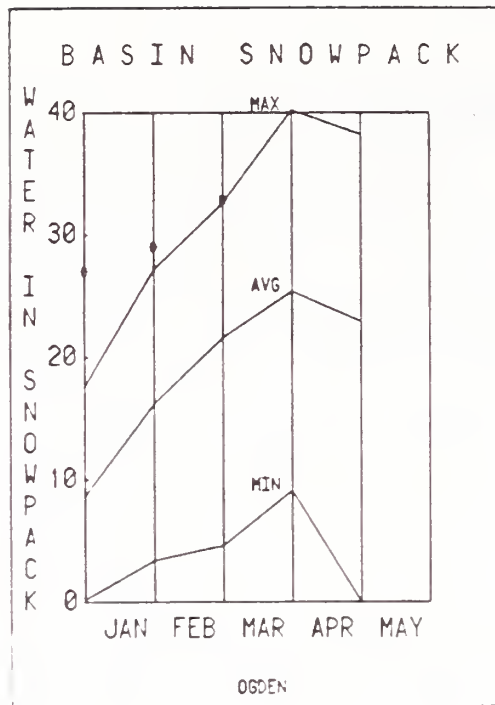
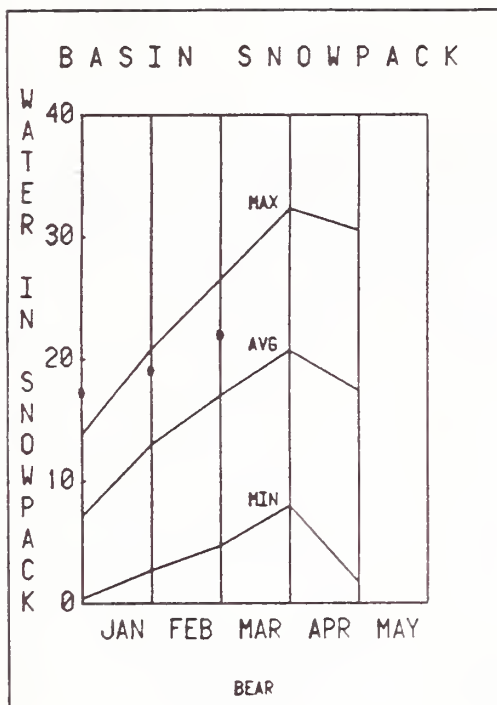
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	Pineview	110.1	21.3	58.2	48.7 ^b
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	Echo	73.9	24.8	50.0	49.5
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COLORADO RIVER BASIN					
<u>Ashley Creek</u>	Steinaker	33.3	26.0	32.6	21.1 ^b
	Red Fleet	26.0	18.1	21.0	--
<u>Colorado</u>	Blue Mesa	829.5	375.0	478.4	--
	Lake Powell	25002.0	21478.0	22231.0	--
<u>Green</u>	Flaming Gorge	3749.0	3151.0	3167.0	--
<u>Lakefork</u>	Moon Lake	35.8	29.1	31.0	16.8
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	Ken's Lake	2.3	1.6	1.0	--
<u>San Rafael</u>	Huntington North	3.9	2.8	3.7	3.0 ^b
	Joe's Valley	54.6	49.1	47.4	44.6 ^b
	Mill Site	16.7	13.5	13.1	4.0 ^b
<u>Strawberry</u>	Currant Creek		5.1	--	--
	Starvation	165.3	95.1	121.4	112.1 ^b
	Soldier Creek	951.4	61.0	46.4	--
<u>Uintah</u>	Bottle Hollow	11.3	11.0	11.1	10.2 ^b

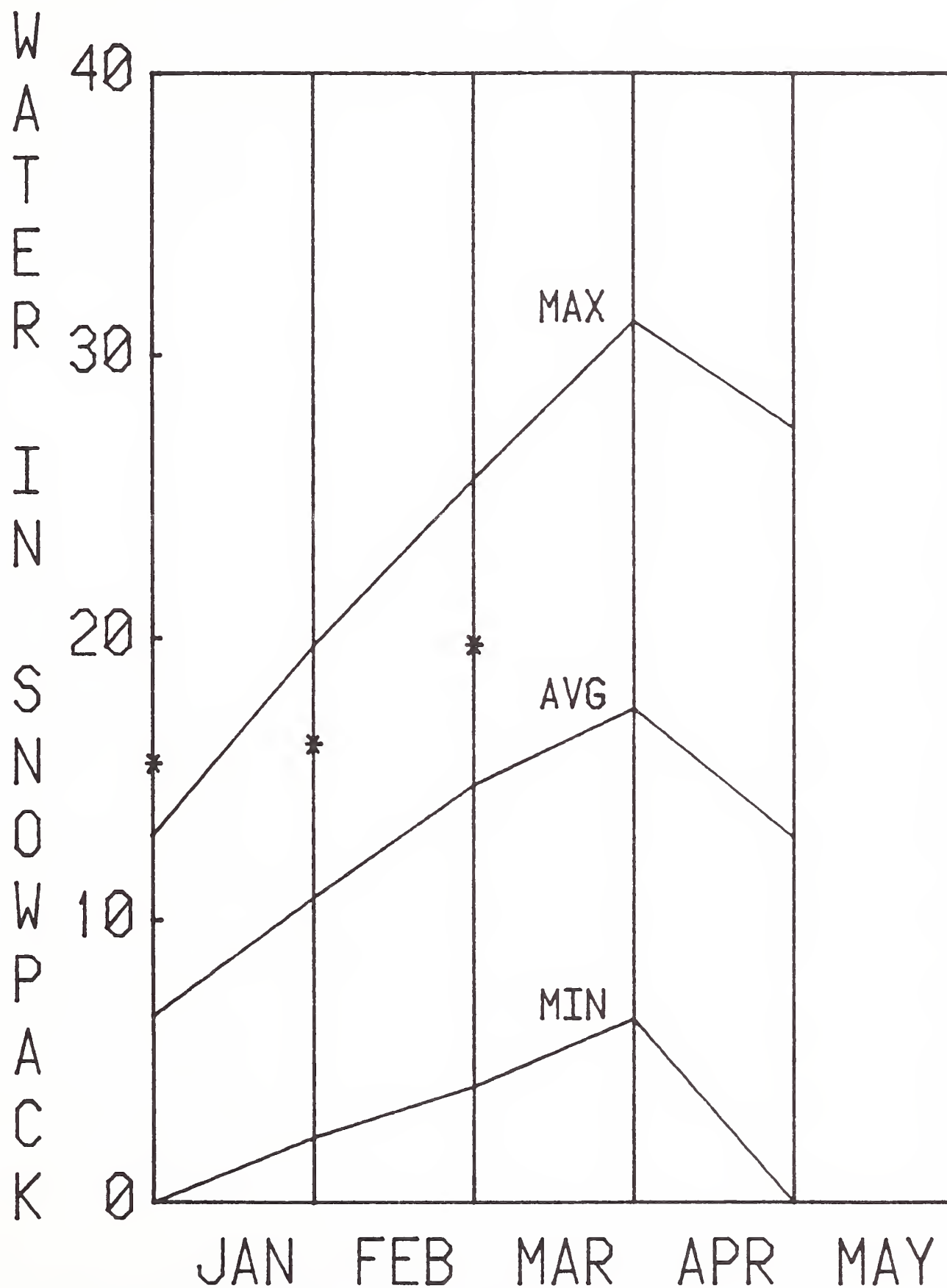
a - Partly estimated

b - Average of past record in average period - less than 20 years

+ - 1961-80 20 year average period



BASIN SNOWPACK



UTAH STATE WIDE

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



Peak flows are expected to range from near average on Smith's Fork to about twice average on Big Creek. Precautions should be taken to protect property near streams with higher forecasts. All water users are expected to have adequate or better water supplies this season.

BEAR RIVER BASIN IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST %		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
BEAR RIVER					
Bear nr UT-Wyo. State Line	167	152	Apr-July	164	110
Bear nr Woodruff 1/	277	199	Apr-July	275	139
Woodruff Crk nr Woodruff, UT	26	150	Apr-July	30	17.3 ^b
Big Creek nr Randolph, UT	11.2	211	Apr-July	--	5.3 ^b
Bear nr Randolph 1/	225	205	Apr-July	294	110
Thomas Fork nr ID-WY State Ln	37	106	Apr-Sept	--	35
Smith's Fork nr Border, WY	119	100	Apr-Sept	--	119
Bear at Harer, Idaho 1/	450	145	Apr-Sept	688	310
Logan nr Logan 1/	147	127	Apr-July	167	116
Blacksmith Fork nr Hyrum	80	156	Apr-July	87	51
Little Bear nr Paradise	57	151	Apr-June	80	38
Cub River nr Preston, ID	60	128	Apr-July	--	47

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUBWATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
BEAR RIVER	32	144	134
UPPER BEAR RIVER	7	142	113
LOWER BEAR RIVER	25	144	139
LOGAN RIVER	7	148	128
RAFT RIVER	4	94	131

1 - Observed flow corrected for change in storage and diversions
 2 - Inflow record as computed by U. S. Bureau of Reclamation
 3 - Provisional flows - Subject to Correction
 a - Partly estimated
 b - Average of all past record - less than 20 years
 e - Maximum mean daily peak flow
 + - 1961-80 20 year Average Period
 * - Forecast in cooperation with National Weather Service

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average
BEAR RIVER	Bear Lake	1421.0	1077.9	1114.1	979.6
	Woodruff Narrows	55.8	55.4	35.1	--
	Woodruff Creek	3.5	3.5	3.5	--
LITTLE BEAR	Hyrum	15.3	10.4	10.3	10.8
	Porcupine	11.3	5.0	4.2	3.7 ^b

PEAK FLOWS^e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average
Bear nr. Ut.-Wyo. Stateline	2120-2490	1506
Woodruff Creek nr Woodruff	310-450	253
Big Creek nr Randolph	80-120	48 ^b
Logan River nr Logan	1010-1300	980
Little Bear nr Paradise	630-950	519

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average
Burts-Miller Ranch	3/1	21	4.7	3.6	4.7 ^a
Cub River R.S.	2/29	47	14.5	8.3	8.6
Emigrant Summit	3/1	81	29.3	22.4	21.9
Franklin Basin	3/2	73	26.7	18.8	21.7 ^a
Hayden Fork	3/2	46	15.9	10.3	13.4 ^a
Klondike Narrows	3/2	59	22.9	14.2	17.5

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average
Little Bear Lower	2/22	46	14.6	9.7	9.3
Little Bear Upper	2/22	53	18.0	11.2	11.0
Monte Cristo	3/1	66	26.2	17.7	22.1
Salt River Summit	2/27	50	13.9	10.6	14.5
Stillwater Camp	3/1	35	9.9	7.5	8.9 ^a
Tony Grove R.S.	3/1	51	16.8	10.8	11.1

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
Federal Bldg. - Room 4012
Salt Lake City, Utah 84111

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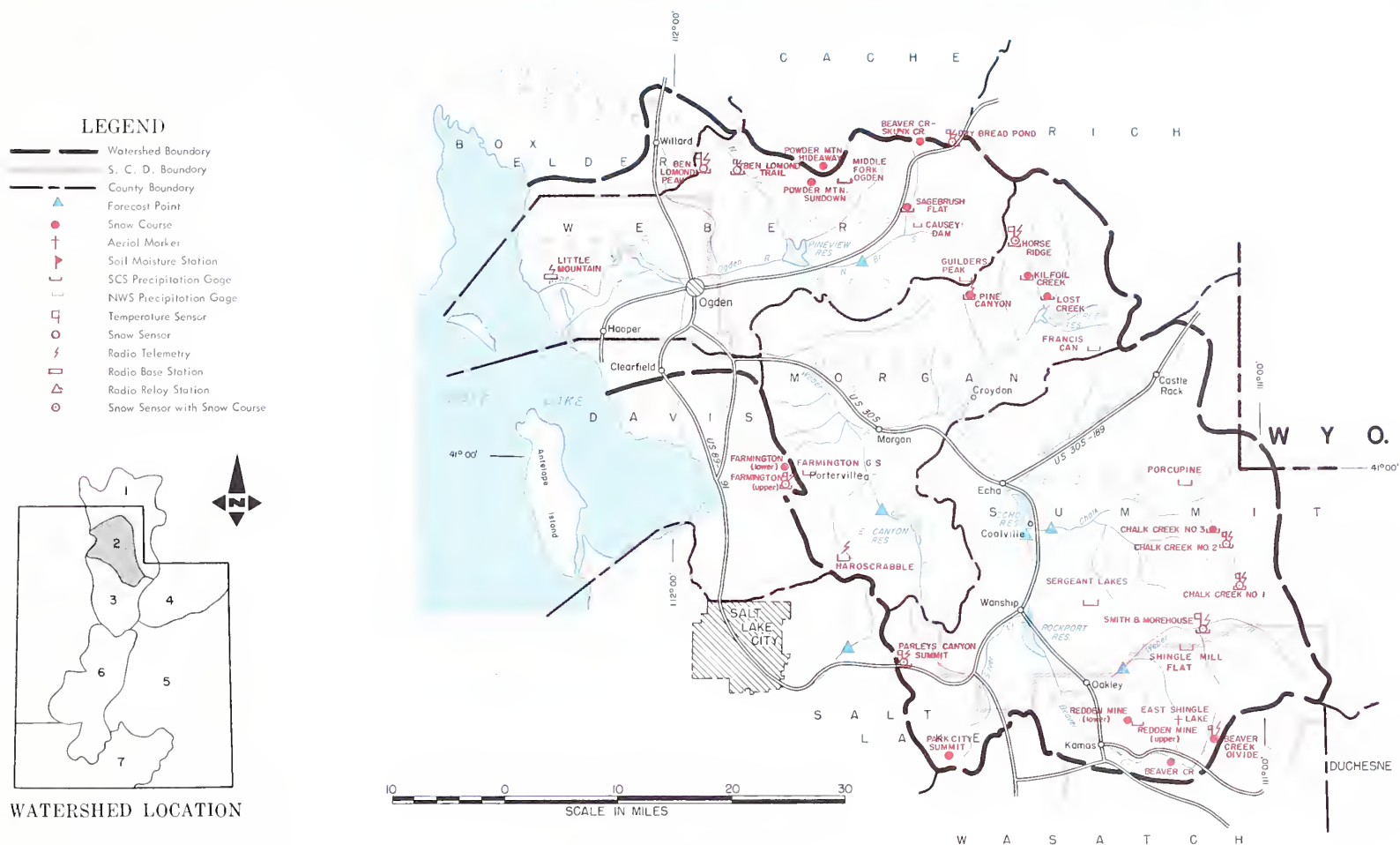
FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

WEBER-OGDEN WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER now ranges from 138% of the March 1 average on the Weber River to 164% on the Ogden Basin.

PRECIPITATION at mountain stations ranged from 46% of the February average at Causey Dam to 94% at Chalk Creek #2.

SOIL MOISTURE is above average and wetter than last year.

RESERVOIR STORAGE has been drawn down to make space for spring runoff and is now 60% of last year at this time and 68% of average.

STREAMFLOW FORECASTS have been reduced as much as 13% after below average increases to the snow pack and now range from 124% at Oakley to 212% for East Canyon Creek. Other forecasts are as follows: Rockport Inflow 129%, Chalk Creek 167%, Echo Inflow 145%, Weber at Gateway 158% and Lost Creek 199% of the April-June average. The Ogden River is forecast 153% for the South Fork and 169% for Pineview Inflow. Hardscrabble Creek is forecast 155% and Farmington Creek 187% of average.

Peak flows are expected to be 20 to 70% above average in this area and precautions should again be taken to protect property along stream channels.

All water users are expected to have adequate water supplies this season.

WEBER-OGDEN WATERSHEDS IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST *			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year †	Average †
WEBER-OGDEN RIVERS					
Weber nr Oakley	126	124	Apr-June	144	102
Rockport Reservoir Inflow <u>1/</u>	143	129	Apr-June	164	111
Chalk Creek at Coalville	60	167	Apr-June	67	36
Weber nr Coalville <u>1/</u>	154	129	Apr-June	187	119
Lost Creek nr Croydon, UT <u>1/</u>	31	199	Apr-June	37	15.6 ^a
East Canyon Creek nr Morgan <u>1/</u>	53	212	Apr-June	53	25
Hardscrabble Crk nr Porterville	29	155	Apr-June	--	18.4 ^a
S. Fork Ogden nr Huntsville <u>1/</u>	87	153	Apr-June	96	57 ^a
Pineview Reservoir Inflow <u>1/</u>	194	169	Apr-June	207	115 ^a
Echo Reservoir Inflow <u>2/</u>	210	145	Apr-June	227	145
Weber at Gateway <u>1/</u>	473	158	Apr-June	574	300
JORDAN RIVER & SALT LAKE					
Farmington Crk nr Farmington	15.3	187	Apr-July	--	8.2 ^b

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
OGDEN RIVER	5	158	164
WEBER RIVER	14	132	138

- 1 - Observed flow corrected for change in storage and diversions
 2 - Inflow record as computed by U. S. Bureau of Reclamation
 3 - Provisional flows - Subject to Correction
 a - Partly estimated
 b - Average of all past record - less than 20 years
 e - Maximum mean daily peak flow
 + - 1961-80 20 year Average Period
 * - Forecast in cooperation with National Weather Service

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
OGDEN	Causey	6.9	1.4	1.1	2.3 ^b
	Pineview	110.1	21.3	58.2	48.7 ^b
WEBER	East Canyon	48.1	20.0	40.2	35.6 ^b
	Echo	73.9	24.8	50.0	49.5
	Lost Creek	20.0	4.4	14.1	13.4 ^b
	Rockport	60.9	27.7	46.9	30.2
	Willard Bay	193.3	121.7	155.5	144.7 ^b

PEAK FLOWS^c

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
South Fork Ogden nr Huntsville	940-1300	763
Chalk Creek nr Coalville	690-1030	510
Weber nr Oakley	1620-2080	1540

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Beaver Creek R.S.	2/28	33	10.5	6.9	7.8
Beaver Creek-Skunk Creek	3/1	42	16.3	9.8	11.2
Ben Lomond Peak	3/2	122	54.5	35.2	31.4 ^b
Ben Lomond Trail	3/2	75	28.8	20.0	15.8 ^a
Chalk Creek #1	3/2	61	23.1	17.7	18.1
Chalk Creek #2	3/2	46	14.5	10.8	12.2
Chalk Creek #3	3/2	28	8.0	6.3	6.7
Dry Bread Pond	3/1	57	22.1	13.0	16.2

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Horse Ridge	3/1	65	25.8	16.1	18.9 ^b
Lost Creek Reservoir	3/1	30	8.9	5.2	5.5 ^a
Monte Cristo	3/1	66	26.2	17.7	22.1
Parleys Canyon Summit	2/29	66	23.1	15.3	15.9
Sagebrush Flat	3/1	30	9.2	4.8	4.9
Smith & Morehouse	3/2	41	13.8	11.0	11.4
Trial Lake	3/2	60	22.3	18.1	20.8

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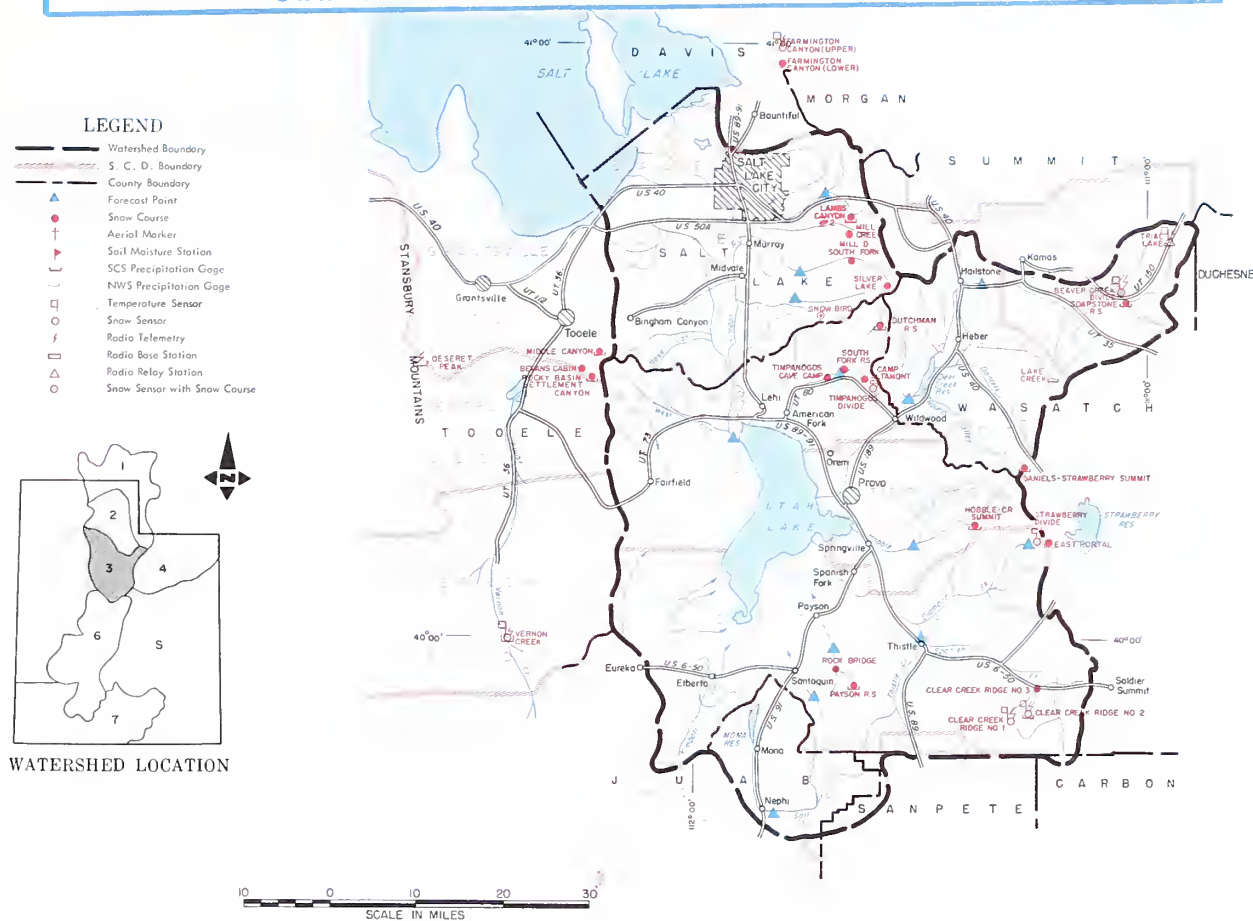
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"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MARCH 1, 1984

THE WATER SUPPLY OUTLOOK IS WELL ABOVE AVERAGE

SNOW COVER now ranges from 110% on the Upper Provo River to 136% on the Jordan River Salt Lake Front. Utah Lake drainage is 124% of the March 1st average.

PRECIPITATION at mountain stations ranged from 44 to 76% of the February average.

SOIL MOISTURE is above average and wetter than last year.

RESERVOIR STORAGE is above average with Utah Lake now 3.2 feet above compromise and releasing as much as possible prior to spring runoff. Great Salt Lake is now 4206.70 feet above mean sea level, 4.25 feet higher than a year ago and 0.40 feet higher than on February 1st.

STREAMFLOW FORECASTS now range from 139% for Little Cottonwood Creek to 257% on Emigration Creek. Provo River is forecast 156% at Hailstone and 192% below Deer Creek Dam. American Fork is forecast 161%, Hobbie Creek 237%, Spanish Fork 225%, Payson Creek 185%, and Utah Lake Inflow 252% of the April-July average. Streams along the Salt Lake Front are forecast as follows: Big Cottonwood 154%, Mill Creek 203%, Parleys 211%, and City Creek 179%. Tooele Valley streams range from 213% for Settlement Creek to 170% for South Willow Creek. Vernon Creek is forecast 179% of average. Peak flows are expected to range from near average on the Upper Provo to better than twice average on Spanish Fork. Precautions should be taken to protect property bordering on streams and lakes again this season. All water users are expected to have adequate water supplies this season.

UTAH LAKE, JORDAN RIVER AND TOOELE VALLEY WATERSHEDS IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST *	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year †	Average †
PROVO RIVER AND UTAH LAKE					
Provo nr Hailstone 1/	165	156	Apr-July	160	106
Provo below Deer Creek Dam1/	230	192	Apr-July	--	118
American Fork nr American Fk.	50	161	Apr-July	--	31
Hobble Creek nr Springville	41	237	Apr-July	--	18.7 ^b
Strawberry Reservoir Inflow1/	78	147	Apr-July	147	53
Spanish Fork at Thistle	90	225	Apr-July	--	40
Payson Creek nr Payson	11.5	185	Apr-July	--	6.2
Utah Lake Inflow	600	252	Apr-July	--	238
JORDAN RIVER & SALT LAKE					
Little Cottonwood Crk nr SLC	53	139	Apr-July	63	38
Big Cottonwood nr SLC	57	154	Apr-July	61	37
Parley's Creek nr SLC	31	211	Apr-July	42	14.8
Mill Creek nr SLC	12.0	203	Apr-July	13.6	5.8
Emigration Creek nr SLC	9.5	257	Apr-July	13.9	3.7
City Creek nr SLC	14.0	179	Apr-July	21.6	7.7
TOOELE VALLEY					
Settlement Crk nr Tooele	4.9	213	Apr-July	--	2.3 ^b
S. Willow Crk nr Grantsville	5.1	170	Apr-July	4.3	3.0 ^b
Vernon Creek nr Vernon	1.8	179	Mar-June	5.7 ^a	1.0

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Gauging Stations	THIS YEAR AS A PERCENT OF	
		Last Year	Average
PROVO RIVER & UTAH LAKE	10	120	124
JORDAN RIVER & SALT LAKE	5	123	136

1 - Observed flow corrected for change in storage and diversions
3 - Provisional flows - subject to correction
a - Partly estimated
b - Average of past record - less than 20 years
+ - 1961-80 20 year average period
e - Maximum mean daily peak flow
* - Forecast in cooperation with National Weather Service

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
SPANISH FORK	Strawberry	270.0	270.0	252.7	142.4
UTAH LAKE	Utah Lake	883.9	1201.8	1096.7	689.4
	Settlement Creek	1.2		1.0	0.7 ^b
	Vernon Creek	0.6	0.6	0.5	0.5 ^b
PROVO	Deer Creek	149.7	123.7	109.1	95.5

PEAK FLOWS ^e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Big Cottonwood nr Salt Lake City	500-600	442
Little Cottonwood nr Salt Lake City	600-700	384
Provo Near Hailstone	2200-2500	2128
Spanish Fork nr Thistle	900-1100	451 ^b
American Fork nr American Fork	500-600	329
Mill Creek nr Salt Lake City	85-100	59
Parley's Creek nr Salt Lake City	275-325	154
City Creek nr Salt Lake City	110-130	75
Emigration	110-130	--

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME				Last Year	Average †
Bevans Cabin		Not Scheduled			
Clear Creek #1	2/27	58	21.1	15.1	16.3
Clear Creek #2	2/27	49	15.6	12.0	12.2
Clear Creek #3	2/27	35	10.5	8.0	7.5
Daniels-Strawberry Summit	2/28	47	15.8	14.6	12.9
Deseret Peak		Not Scheduled			
Hobble Creek Summit	2/23	55	19.0	14.0	12.8
Lambs Canyon #2	2/29	58	20.0	13.9	13.8 ^a
Middle Canyon		Not Scheduled			
Mill Creek	2/27	66	21.9	17.7	16.1 ^a

SNOW

DRAINAGE BASIN and/or SNOW COURSE	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	PAST RECORD	
				Water Content (Inches)	
NAME				Last Year	Average †
Mill D South Fork	3/1	63	22.9	18.4	17.0
Parley's Canyon Summit	2/29	66	23.1	15.3	15.9
Payson R.S.	2/23	70	24.6	17.9	16.4 ^b
Rocky Basin-Settlement Canyon	3/1	105 ^a	39.0 ^a	--	20.4 ^a
Silver Lake Brighton	3/1	67	25.0	23.0	20.4
Soapstone R.S.	2/28	42	13.1	9.2	11.3
South Fork R.S.	2/29	38	12.0	12.9	6.1
Timpanogos Divide	2/29	59	19.8	26.1	22.1
Trial Lake	3/2	60	22.3	18.1	20.8
Vernon Creek	3/1	40 ^a	14.9 ^a	16.0	8.9 ^a

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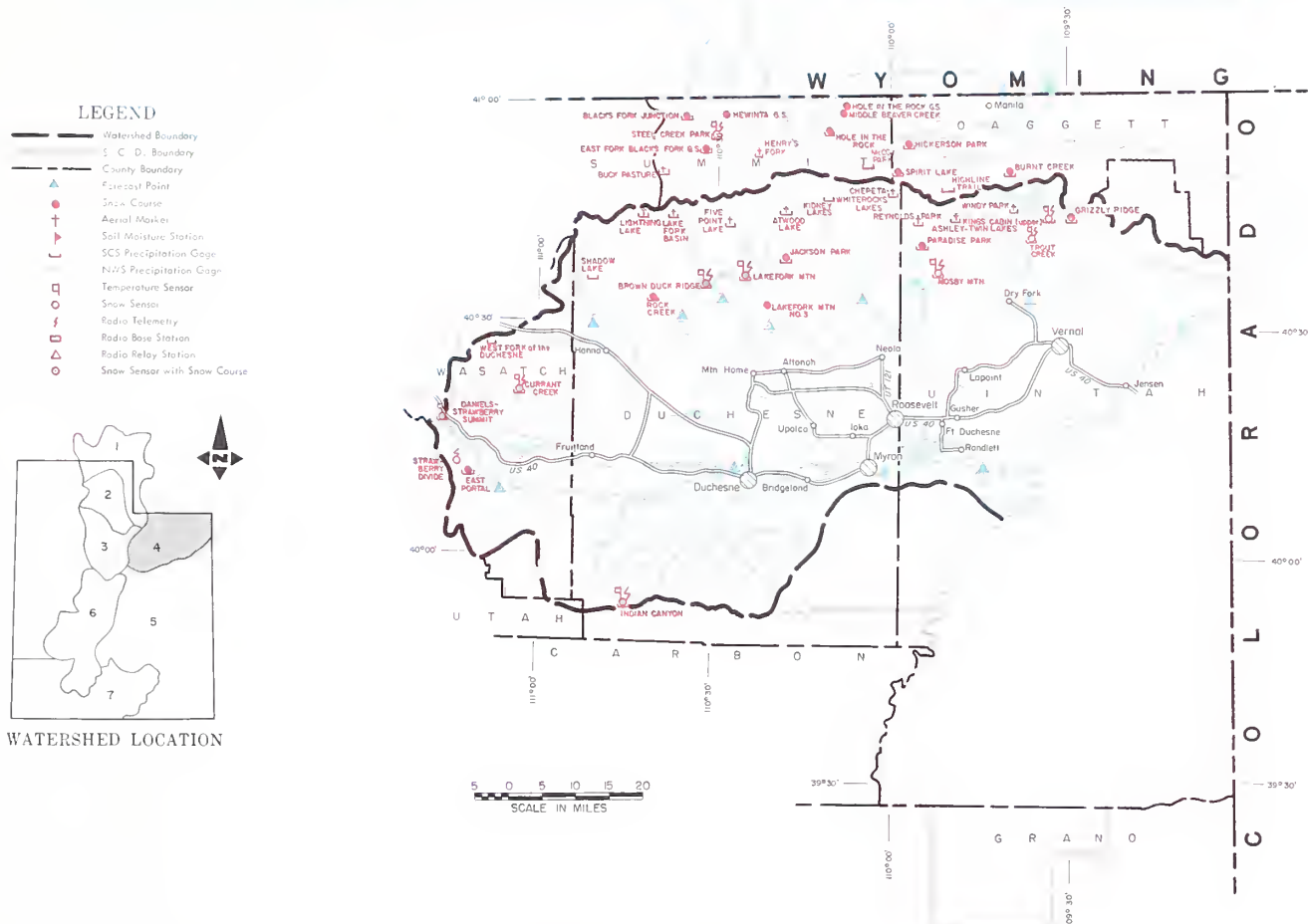
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"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE--SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MARCH 1, 1984

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER ranges from 101% of the March 1 average on Ashley Creek to 127% on Sheep Creek. Lakefork-Yellowstone Creeks are 108%, Uintah-Whiterocks 107%, Black's Fork 124%, and Strawberry River 116% of average.

PRECIPITATION at mountain sites ranged from 13% on the Black's Fork to 88% at Burnt Creek.

SOIL MOISTURE is above average and wetter than last year.

RESERVOIR STORAGE is generally above average except in Starvation which was drawn down earlier this winter and will fill from spring runoff.

STREAMFLOW FORECASTS range from 111% for Rock Creek to 196% for the Duchesne at Myton. The Duchesne is forecast 124% at Tabiona, 119% at Duchesne, and 189% at Randlett. Curreant Creek is forecast 155%, Lakefork 123%, Yellowstone 120%, Uintah 136%, Whiterocks 140% and Ashley 120%. Henry's Fork is forecast 131%, Black's Fork 128% and Flaming Gorge Inflow 116% of the April-July average.

Peak flows are not expected to cause problems in this area except possibly on the Strawberry River which is forecast about 175% of average at 970-1390 cfs. Adequate water supplies are expected for all water users this year.

UINTAH BASIN AND DAGGETT SCD's IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST *			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
DUCHESNE RIVER					
Duchesne nr Tabiona 1/	130	124	Apr-July	141	105
Duchesne at Duchesne 1/	224	119	Apr-July	290	189
Strawberry at Duchesne	98	169	Apr-July	185	58
Rock Creek nr Mtn. Home	103	111	Apr-July	--	93
Currant Creek nr Fruitland	31	155	Apr-July	54	20
Lakefork below Moon Lake 1/	86	123	Apr-July	--	70
Yellowstone nr Altonah	78	120	Apr-July	--	65
Duchesne at Myton 1/	402	196	Apr-July	--	205
Whiterocks nr Whiterock	81	140	Apr-July	97	58
Uintah nr Neola	117	136	Apr-July	--	86
Duchesne at Randlett 1/	485	189	Apr-July	--	257
West Fork Duchesne at Hanna	32	123	Apr-July	--	26
FLAMING GORGE TO DUCHESNE RIVER					
Henry's Fork nr Manila	63	131	Apr-Sept	162	48
Black's Fork nr Millburne	115	128	Apr-July	145	90
Flaming Gorge Inflow 1/	1450	116	Apr-July	--	1248
Ashley Creek nr Vernal	61	120	Apr-July	--	51

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
ASHLEY CREEK	Red Fleet	26.0	18.1	18.0	--
	Steinaker	33.3	26.0	23.9	21.1 ^b
GREEN RIVER	Flaming Gorge	3749.0	3151.0	3309.8	--
LAKE FORK	Moon Lake	35.8	29.1	31.0	16.8
STRAWBERRY	Currant Creek	14.3	5.1	--	--
	Starvation	165.3	95.1	92.7	112.1 ^b
	Soldier Creek	951.4	61.0	46.4	--

UINTAH	Bottle Hollow	11.3	11.0	11.1	10.2 ^b
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DRAINAGE BASIN and/or SNOW COURSE	NAME	THIS YEAR		PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	
				Last Year	Average †
	Brown Duck Ridge	2/29	60	19.5	15.8
	Burnt Creek	2/29	22	5.0	4.1
	Currant Creek	2/28	37	10.5	10.3
	Daniels-Strawberry	2/28	47	15.8	14.6
	Grizzly Ridge	2/29	35	9.8	11.7
	Hewinta G. S.	3/1	34	9.8	7.4
	Hickerson Park	3/1	30	8.7	5.3
	Jackson Park	2/29	44	11.9	13.6
	Kings Cabin Upper	3/1	36	9.4	11.6

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUBWATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
DUCHESNE RIVER - TOTAL	13	94	115
LAKEFORK-YELLOWSTONE CREEKS	4	93	108
STRAWBERRY RIVER	4	98	116
UINTAH - WHITEROCKS RIVERS	4	82	107
ASHLEY CREEK	3	77	101
BLACK'S FORK	4	142	124
SHEEP CREEK	3	127	127
1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 20 years e - Maximum mean daily peak flow + - 1961-80 20 year Average Period * - Forecast in cooperation with National Weather Service			

PEAK FLOWS ^e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Strawberry at Duchesne	970-1390	675
Ashley Creek nr Vernal	720-1220	966
Rock Creek nr. Mtn. Home	1480-1790	1415

SNOW

DRAINAGE BASIN and/or SNOW COURSE	NAME	THIS YEAR		PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	
				Last Year	Average †
	Lakefork Mountain	2/29	36	9.8	11.0
	Mosby Mountain	3/1	33	8.4	10.5
	Paradise Park	2/29	41 ^a	12.3 ^a	16.1
	Rock Creek Ranch	2/29	27	7.5	8.0
	Spirit Lake	3/1	39	11.5	10.3
	Steel Creek Park	3/2	51	15.9	12.3
	Strawberry Divide	2/28	64	23.0	19.8
	Trout Creek	2/29	32	8.3	11.4

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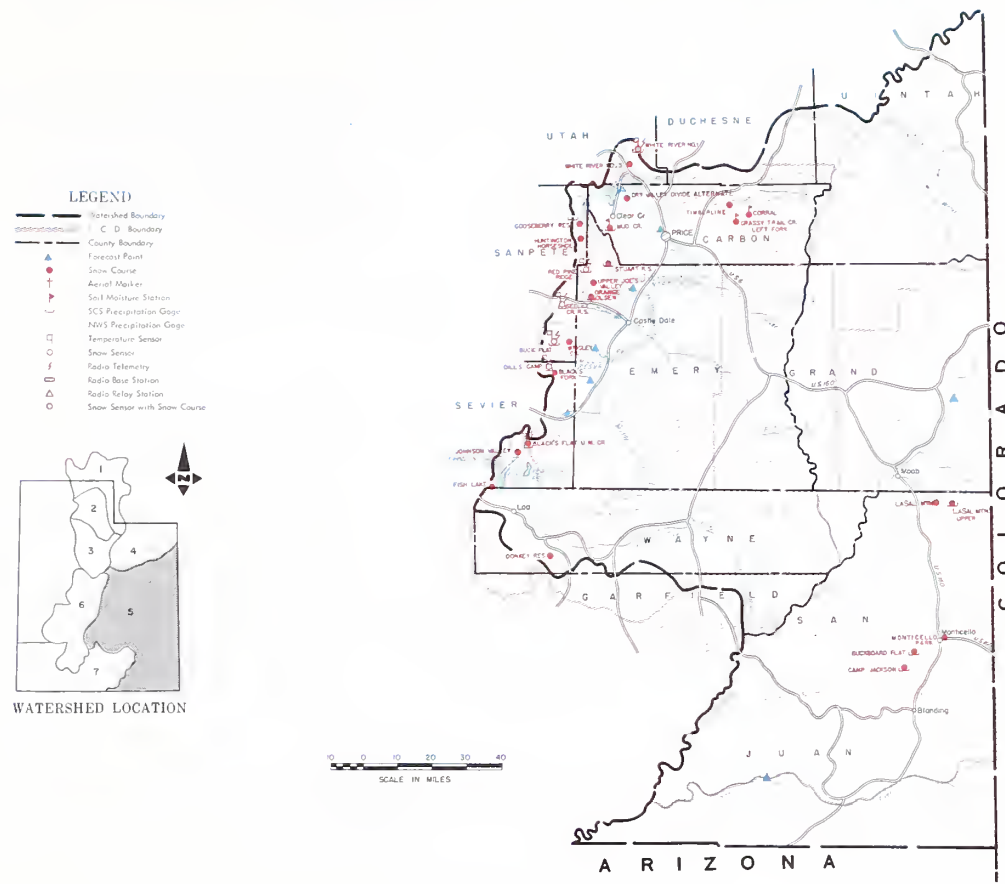
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WATER SUPPLY OUTLOOK

CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MARCH 1, 1984

THE WATER SUPPLY OUTLOOK IS WELL ABOVE AVERAGE

SNOW COVER ranges from 95% of the March 1 average on the Blue Mountains to 194% on the Fremont River. Price River snow cover is 139%, San Rafael 164%, Muddy 155%, and LaSal Mountains 133%.

PRECIPITATION at mountain stations ranged from about 1/4 average at Red Pine Ridge to over 6 times average at Fish Lake. February precipitation was very heavy on a band from Fillmore to the Fremont River drainage.

SOIL MOISTURE is above average except on the LaSal and Blue Mountains where it is near average.

RESERVOIR STORAGE is above average.

STREAMFLOW FORECASTS range from 133% for the San Juan near Bluff to 221% for the Price near Heiner. Scofield Inflow is forecast 209%, Huntington Creek 186%, Cottonwood 204%, Ferron 186%, Muddy 184% and Seven Mile 137%. The Colorado is forecast 166% at Cisco, the Green 147% at Green River and Mill Creek near Moab 164% of the April-July average.

Peak flows are expected to be 1 1/2 to twice average in this area and property near stream channels should be protected again this year. All water users are expected to have abundant water supplies this season.

CARBON, EMERY, WAYNE, GRAND AND SAN JUAN COUNTIES IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	Forecast ⁺ Thousand Acres Feet	Percent of Average		Thousand Acre Feet Last Year ³	Average ⁴
PRICE RIVER					
Gooseberry Crk nr Scofield	21	196	Apr-July	--	10.7
Scofield Reservoir Inflow	79	209	Apr-July	--	38
Price nr Heiner ^{1/}	140	221	Apr-July	--	63
SAN RAFAEL RIVER					
Huntington Crk nr Huntington	91	186	Apr-July	--	49
Cottonwood Crk nr Orangeville	96	204	Apr-July	159	47 ^b
Ferron Creek nr Ferron	69	186	Apr-July	75	37
MUDDY CREEK					
Muddy Creek nr Emery	34	184	Apr-July	44	18.5
UPPER COLORADO BASIN					
Colorado nr Cisco, UT	5070	166	Apr-July	--	3046
Green at Green River, UT	4450	147	Apr-July	--	3016
Mill Creek nr Moab	9.0	164	Apr-July	12.4	5.5 ^b
Navajo Reservoir Inflow	850	117	Apr-July	--	684
San Juan nr Bluff, UT	1320	133	Apr-July	--	995
FREMONT RIVER					
Seven Mile Crk nr Fish Lake	8.9	137	Apr-July	28	6.5 ^b

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average ⁴
PRICE RIVER	Scofield	65.8	49.8	48.2	32.2
SAN RAFAEL	Huntington North	3.9	2.8	3.7	3.0 ^b
	Joe's Valley	54.6	49.1	47.4	44.6 ^b
	Mill Site	16.7	13.5	13.1	4.0 ^b
SAN JUAN	Navajo	1696.0	1352.0	1344.5	--
	Kens Lake	2.3	1.6	1.0	--

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUBWATERSHED	Number of Gauges Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
PRICE RIVER	4	142	139
SAN RAFAEL RIVER	8	126	164
FREMONT RIVER	3	134	194
LASAL MOUNTAINS	2	92	133
BLUE MOUNTAINS	2	69	95
MUDDY RIVER	2	125	155

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 a - Partly estimated
 b - Average of all past record - less than 20 years
 e - Maximum mean daily peak flow
 + - 1961-80 20 year Average Period
 * - Forecast in cooperation with National Weather Service

PEAK FLOWS ^e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average ⁴
Ferron Creek near Ferron	710-860	422
Muddy Creek near Emery	230-360	154
Huntington Cr. near Huntington	1000-1200	850

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches) Last Year	Average ⁴
Buck Flat	2/26	64	22.8	17.7	14.4
Buckboard Flat	2/23	38	11.5	13.9	11.2
Camp Jackson	2/23	35	10.1	17.4	11.5
Dills Camp	2/26	48	15.1	13.0	10.6 ^a
Dry Valley Divide Alternate	2/27	43	14.5	10.3	11.2 ^a
Huntington-Horseshoe	2/27	78	31.8	28.0	19.9 ^a
Indian Canyon	2/27	38	10.5	14.3	10.7
La Sal Mtn. Upper	2/22	56	17.2	19.5	12.4 ^b
Mammoth-Cottonwood R.S.	2/27	73	27.8	21.7	18.1

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches) Last Year	Average ⁴
Monticello City Park	2/24	5	1.6	0.0	2.4 ^a
Mud Creek	2/27	53	17.1	11.4	11.8
Red Pine Ridge	2/27	69	24.0	17.6	14.7
Seeley Creek	2/27	75	28.2	19.3	13.9
White River #1	2/27	48	16.0	12.6	11.9
White River #3	2/27	35	12.3	7.8	7.9

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UTAH STATE DEPARTMENT OF NATURAL RESOURCES



WATERSHED LOCATION

A scale bar labeled "SCALE IN MILES" with markings at 10, 0, 10, 20, and 30.

THE WATER SUPPLY OUTLOOK IS WELL ABOVE AVERAGE

PRECIPITATION at mountain stations was quite variable during February ranging from 43% of average at Duck Creek Ranger Station on the Upper Sevier to 217% of average at Shingle Mill on Chalk Creek above Fillmore.

RESERVOIR STORAGE is above average in most reservoirs with most releasing water in anticipation of heavy runoff.

STREAMFLOW FORECASTS reflect the variability in precipitation last month with some showing significant increases while others have decreased somewhat. Forecasts now range from 144% of the April-July average for Oak Creek near Oak City to 673% for the Sevier River-Sigurd to Gunnison. Other Sevier River forecasts are as follows: Hatch 145%, Circleville 181%, Kingston 190%, East Fork near Kingston 196%, below Piute Dam 189% and Gunnison 444%. Antimony Creek is forecast at 236%, Clear Creek 175%, Salina Creek 231%, Chalk Creek near Fillmore 372%, Chicken Creek near Levan 163%, Ephriam Creek 235%, Pleasant Creek 279%, and Salt Creek near Nephi 170%. The Beaver River is forecast at 239% near Beaver, 240% for North Creeks and 393% for Minersville Inflow. Peak flows are expected to range from nearly one and one-half to three times average and steps should be taken to protect property along stream channels.

SEVIER RIVER BASIN INCLUDING BEAVER RIVER IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST *			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year †	Average ‡
SEVIER RIVER					
Sevier at Hatch	70	145	Apr-July	--	48
Sevier nr Circleville	70	181	Apr-July	--	38
Sevier nr Kingston	55	190	Apr-July	--	28
Antimony Crk nr Antimony	17.5	236	Apr-July	--	7.4
East Fork Sevier nr Kingston	37	196	Apr-July	--	18.9
Sevier below Piute Dam	85	189	Apr-July	--	45
Clear Crk nr Sevier (abv Div)	33	175	Apr-July	--	18.9
Sigurd to Gunnison	175	673	Apr-July	--	26
Kingston to Vermillion Dam	100	300	Apr-June	--	45
Vermillion Dam to Gunnison	190	537	Apr-June	--	25
Salina Creek at Salina	28	231	Apr-June	--	11.9
Sevier nr Gunnison	240	444	Apr-July	--	54
Chalk Creek nr Fillmore	61	372	Apr-July	--	16.4 ^b
Chicken Creek nr Levan	5.7	163	Apr-July	24	3.5 ^b
Oak Cr. nr Oak City	2.3	144	Apr-July	4.5	1.6 ^b
Ephraim Creek nr Ephraim	35	235	Apr-July	--	14.9
Pleasant Crk nr Mt. Pleasant	24	279	Apr-July	--	8.6
Salt Creek nr. Nephi	23	170	Apr-July	--	13.5
Beaver nr Beaver	55	239	Apr-July	72	23
North Creek (Combined)	35	240	Apr-July	--	14.6 ^a
Minersville Inflow	35	393	Apr-June	--	8.9

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
SEVIER RIVER	Gunnison	18.2	13.8	17.0	14.0 ^b
	Otter Creek	52.5	49.0	50.6	31.2
	Piute	71.8	57.1	56.0	41.5
	Sevier Bridge	236.0	208.0	234.0	119.6
	Panguitch Lake	22.3	20.6	20.5 ^a	--
BEAVER RIVER	Minersville (Rky Fd)	26.0	22.5	24.6	12.9

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
UPPER SEVIER RIVER	9	77	112
East Fork Sevier	4	96	130
South Fork Sevier	5	58	88
LOWER SEVIER	12	133	168
BEAVER RIVER	4	117	157

1 - Observed flow corrected for change in storage and diversions
 2 - Inflow record as computed by U. S. Bureau of Reclamation
 3 - Provisional flows - Subject to Correction
 a - Partly estimated
 b - Average of all past record + less than 20 years
 e - Maximum mean daily peak flow
 + - 1961-80 20 year Average Period
 * - Forecast in cooperation with National Weather Service

PEAK FLOWS ^e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Beaver River nr Beaver	540-800	257
Sevier River at Hatch	600-800	484
Sevier River nr Kingston	500-700	312
Clear Creek nr Sevier	350-450	226
Salina Creek nr Salina	700-900	285

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Big Flat	2/24	63	23.8	19.3	14.0
Bryce Canyon	2/28	20	4.4	7.9	4.7
Castle Valley	2/24	48	14.1	17.1	11.5
Duck Creek	2/25	32	7.8	15.7	12.4
Farnsworth Lake	2/26	81	24.4	16.1	15.3
Gooseberry R.S.	2/26	57	16.5	10.0	10.1
Harris Flat	2/25	18	4.1	11.5	8.4
Kimberly Mine	2/24	64	19.7	15.7	12.8

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
Long Valley Junction	2/25	3	0.9	7.1	5.3
Merchants Valley Upper	2/24	49	16.3	14.9	11.1 ^b
Midway Valley	2/24	52	16.4	28.3	18.4
Oak Creek	2/23	53	16.8	17.6	13.1 ^a
Otter Lake	2/24	50	17.5	15.5	11.2
Pickle Keg Springs	2/26	79	25.7	17.4	13.2 ^a
Pine Creek	2/23	85	27.2	19.0	13.5
Widtsoe-Escalante #3	2/25	32	8.7	11.6	9.6

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"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES



MARCH 1, 1984

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER varies from 49% of average in the Enterprise-New Harmony area to 134% on Parowan Creek. Virgin River snow cover is now 74% of the March 1 average and Coal Creek and Escalante River are 90% of average.

PRECIPITATION at mountain stations ranged from 46% of the February average at Widtsoe Summit to 148% at Tall Poles on Parowan Creek.

SOIL MOISTURE is wetter than average.

RESERVOIR STORAGE is generally above average. Lake Powell has been drawn down to less than last year at this time to make space for spring runoff.

STREAMFLOW FORECASTS range from 110% of the April-June average on Virgin River to 157% for the Inflow to Lake Powell. Coal Creek is now forecast 120% and Santa Clara 117% of average.

Peak flows are expected to be near average in this area and should cause no problems during the snow melt period.

Adequate water supplies are expected for all water users.

EAST GARFIELD, KANE, WASHINGTON AND IRON COUNTIES IN UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST *			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
VIRGIN RIVER					
Virgin nr Hurricane	68	110	Apr-June	171	62
Santa Clara nr Pine Valley	6.2	117	Apr-June	--	5.3
COAL CREEK					
Coal Creek nr Cedar City	22	120	Apr-July	54	18.4
UPPER COLORADO					
Lake Powell Inflow	11300	151	Apr-July	--	7462

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUBWATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
COAL CREEK	3	59	90
VIRGIN RIVER	3	50	74
PAROWAN CREEK	4	103	134
ENTERPRISE - NEW HARMONY	2	42	49
ESCALANTE RIVER	1	75	90
1 - Observed flow corrected for change in storage and diversions 2 - Inflow record as computed by U. S. Bureau of Reclamation 3 - Provisional flows - Subject to Correction a - Partly estimated b - Average of all past record - less than 20 years e - Maximum mean daily peak flow + - 1961-80 20 year Average Period * - Forecast in cooperation with National Weather Service			

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
COLORADO	Lake Powell	25002.0	21478.0	22231.0	--
	Blue Mesa	829.5	375.0	478.4	--

PEAK FLOWS ^e

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Coal Creek nr Cedar City	275-375	220
Virgin nr Hurricane	1000-1300	1092

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
NAME					
Birch Crossing	2/27	36	9.7	8.0	6.8 ^b
Brian Head	2/24	66	21.1	21.8	17.5 ^b
Harris Flat	2/25	18	4.1	11.5	8.4
Kolob-Crystal	2/24	52	16.0	26.2	16.8 ^a
Little Grassy	2/24	1	0.1	2.8	4.4
Long Flat	2/24	20	5.1	9.5	6.2

SNOW

DRAINAGE BASIN and/or SNOW COURSE	THIS YEAR			PAST RECORD	
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
				Last Year	Average †
NAME					
Long Valley Junction	2/25	3	0.9	7.1	5.3
SUSC Ranch	2/27	28	8.3	13.5	8.9 ^b
Tall Poles	2/27	56	18.3	17.8	12.6 ^b
Webster Flat	2/24	39	11.1	22.4	15.6
Yankee Reservoir	2/24	42	11.2	10.8	8.1

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SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
GREAT BASIN											
UPPER BEAR RIVER											
(Above Harer, Idaho)											
Burts-Miller Ranch	3/1	21	4.7	3.6	4.7 ^a	3/1	0.68	0.93 ^b	8.57	7.25 ^b	118
CCC Camp	2/27	44	11.9	8.8	11.4						
Hayden Fork	3/2	46	15.9	10.3	13.4 ^a	3/2	1.31 ^a	2.87 ^a	19.17	12.86 ^a	149
Monte Cristo R.S.	3/1	66	26.2	17.7	22.1	3/1	2.23	4.15 ^b	25.60	21.27	120
Salt River Summit	2/27	50	13.9	10.6	14.5	2/27	--	2.91	--	14.26	--
Stillwater Camp	3/1	35	9.9	7.5	8.9 ^a	3/1	1.08	1.64 ^b	13.19	10.09 ^b	130
Lily Lake	3/1	45	13.6	9.1	10.0 ^a	3/1	1.29	2.23 ^b	15.90	12.11 ^b	131
LOWER BEAR RIVER											
(Below Harer, Idaho)											
Bug Lake	3/1	60	22.0	11.8	16.9 ^a	3/1	0.70	5.28 ^b	22.70 ^a	18.21 ^b	124
Christensen Ranch	2/29	--	13.4 ^a	9.2	8.3						
Cliff Canyon	2/29	40	12.4	19.2	8.1 ^a						
Cub River R.S.	2/29	47	14.5	8.3	8.6						
Daniels Creek	2/29	34	8.8	7.3	5.0 ^a						
Dry Basin	2/29	95	35.2	24.8	25.0 ^a						
Dry Creek Flat	2/28	48	15.8	8.3	7.8						
Emigrant Summit	3/1	81	29.3	22.4	21.9						
Emigration Canyon	3/1	43	13.0	10.7	9.9						
Franklin Basin	3/2	73	26.7	18.8	21.7 ^a	3/2	5.31 ^a	5.78 ^a	32.62 ^a	21.23 ^a	153
Garden City Summit	3/1	57	21.4	11.6	15.5	3/1	1.15	3.47	20.94	15.80	132
Horseshoe Basin	2/29	--	31.7 ^a	23.3	22.8 ^a						
Klondike Narrows	3/2	59	22.9	14.2	17.5	3/2	2.57	4.99 ^b	22.93	19.93 ^b	115
Liberty Spring	2/29	--	42.9 ^a	32.5	32.1 ^a						
Little Bear (lower)	2/22	46	14.6	9.7	9.3						
Little Bear (upper)	2/22	53	18.0	11.2	11.0	2/22	3.13	3.19 ^a	26.20	17.14 ^b	152
Lower Elkhorn	2/29	49	16.6	13.2	13.1 ^a						
Oxford Mountain	2/28	47	15.1	8.4	9.7						
Slug Creek Divide	2/29	50	15.9	12.8	15.1						
Steep Hollow #1	3/2	100	38.5	28.7	31.1						
Steep Hollow #2	3/2	76	29.2	21.1	22.9						
Strawberry Creek	3/1	51	17.4	11.5	9.9						
Strawberry Mink Divide	2/29	77	27.8	18.4	19.2						
Tony Grove Lake	3/2	99	40.1	26.1	31.9 ^a	3/2	6.00 ^a	5.76 ^a	35.62 ^a	31.69 ^a	112
Tony Grove R.S.	3/1	51	16.8	10.8	11.1	3/1	1.93	3.10 ^b	22.80	14.93 ^b	152
Upper Elkhorn	2/29	62	20.5	17.8	16.8 ^a						
Willow Flat	2/29	64	23.5	12.9	14.1	2/29	3.15	3.71	28.43	18.85	150
Worm Creek	2/29	71	26.8	16.0	17.0 ^a						
UPPER RAFT RIVER											
Clear Creek Meadows	3/5	74	22.6	26.8	17.9 ^b						
George Peak	3/5	90	31.0	32.5	21.6 ^a						
One Mile Summit	3/5	31	7.6	6.2	7.5 ^a						
Vipont	3/5	56	18.0	18.4	13.2 ^a						
OGDEN RIVER											
Beaver Creek-Skunk Creek	3/1	42	16.3	9.8	11.2						
Ben Lomond Peak	3/2	122	54.5	35.2	31.4 ^b	3/2	10.50 ^a	7.67 ^b	54.60 ^a	34.23 ^b	159
Ben Lomond Trail	3/2	75	28.8	20.0	15.8 ^a	3/2	3.82	4.47 ^b	36.97	24.98 ^b	147
Causey Dam	3/1	22	6.8 ^a	--	--	3/1	1.13	2.42 ^b	15.71	11.91 ^b	131
Dry Bread Pond	3/1	57	22.1	13.0	16.2	3/1	1.90 ^a	3.47 ^b	23.62 ^a	16.96 ^b	139
Sagebrush Flat	3/1	30	9.2	4.8	4.9	3/1	1.00	2.58	13.77	12.07	114
WEBER RIVER											
Beaver Creek R.S.	2/28	33	10.5	6.9	7.8						
Chalk Creek #1	3/2	61	23.1	17.7	18.1	3/2	4.12 ^a	4.60 ^a	24.02 ^a	18.38 ^a	130
Chalk Creek #2	3/2	46	14.5	10.8	12.2	3/2	2.12 ^a	2.24 ^b	15.32 ^a	13.17 ^b	116
Chalk Creek #3	3/2	28	8.0	6.3	6.7	3/2	1.37	1.82 ^b	16.39	11.26 ^b	145
Farmington Canyon (lower)	3/2	85	32.7	25.2	19.5 ^b	3/2	3.46	4.04 ^b	32.26	22.40	144
Farmington Canyon (upper)	3/2	98	40.1	30.6	25.6 ^b	3/2	5.10 ^a	6.17 ^a	35.20 ^a	22.44 ^a	156
Farmington G.S.	3/2	81	32.4 ^a	--	--	3/2	3.50 ^a	4.21 ^b	29.10 ^a	19.40 ^b	150
Hardscrabble	3/2	73	29.8	17.5	--						
Horse Ridge	3/1	65	25.8	16.1	18.9 ^b	3/1	2.23	3.79 ^b	27.94	19.40 ^b	144
Kilfoil Creek	3/1	51	17.0	12.2	12.4 ^b						
Lost Creek Reservoir	3/1	30	8.9	5.2	5.5 ^a	3/1	0.71	1.72 ^b	13.03	9.16 ^b	142
Park City Summit	3/1	82	34.5	34.2	26.6 ^a						
Parley's Canyon Summit	2/29	66	23.1	15.3	15.9	2/29	2.85	3.68	25.11	18.48	135
Pine Canyon	3/1	58	22.2	16.1	17.1 ^a						
Redden Mine (lower)	2/28	53	19.3	14.8	15.2 ^b	2/28	2.38	--	15.17	--	--
Smith & Morehouse	3/2	41	14.4	11.0	11.4	3/2	2.28	2.81	15.17	14.71	103
Sargeant Lake (A)				10.4	15.0 ^a						

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)			FROM APPROX. OCT 1 TO DATE		
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
				Last Year	Average †						
GREAT BASIN CONT.											
PROVO RIVER & UTAH LAKE											
Beaver Creek Divide	2/28	40	12.4	8.6	11.3 ^a						
Clear Creek Ridge #1	2/27	58	21.1	15.1	16.3						
Clear Creek Ridge #2	2/27	49	15.6	12.0	12.2	2/27	2.12	2.48	16.80 ^a	13.35 ^b	125
Clear Creek Ridge #3	2/27	35	10.5	8.0	7.5						
Hobble Creek Summit	2/23	55	19.0	14.0	12.8	2/23	1.93	4.39 ^b		17.75 ^b	
Payson R.S.	2/23	70	24.6	17.9	16.4 ^b						
Soapstone R.S.	2/28	42	13.1	9.2	11.3	2/28	1.54	3.01	18.09	15.05	120
South Fork R.S.	2/29	38	12.0	12.9	6.1						
Timpanogos Divide	2/29	59	19.8	26.1	22.1	2/29	3.25	4.30	23.99	21.73	110
Trial Lake	3/2	60	22.3	18.1	20.8	3/2		3.87		20.07	
JORDAN RIVER & GREAT SALT LAKE											
Bevan's Cabin		NOT SCHEDULED									
Deseret Peak		NOT SCHEDULED									
Lamb's Canyon #2	2/29	58	20.0	13.9	13.8 ^a	2/29	2.00	--	18.09	--	--
Middle Canyon		NOT SCHEDULED									
Mill Creek	2/27	66	21.9	17.7	16.1 ^a						
Mill D South Fork	3/1	63	22.9	18.4	17.0						
Rocky Basin-Settlement	3/1	105 ^a	39.0 ^a	--	20.4 ^a	3/1	3.90 ^a	--	39.0 ^a	--	--
Silver Lake (Brighton)	3/1	67	25.0	23.0	20.4						
Snow Bird (Gad Valley)	2/28	107	39.6	31.4	27.6 ^a						
Vernon Creek	3/1	40 ^a	14.9 ^a	16.0	8.9 ^a	3/1	1.80	--	15.13	12.76 ^b	118
COLORADO RIVER DRAINAGE											
UPPER GREEN RIVER - UTAH											
Ashley-Twin Lakes (A)				17.9	13.4 ^a						
Black's Fork G.S.-East Fork	3/2	34	9.3	6.0	7.6		0.73 ^a	5.62	12.26 ^a	9.51	128
Black's Fork Junction	3/2	34	9.6	5.7	7.6	3/2	0.72	5.47	12.22	9.25 ^a	132
Buck Pasture (A)				13.4	12.1 ^a						
Burnt Creek	2/29	22	5.0	4.1	4.3 ^a	2/29	1.00	1.13 ^a	11.20	7.44 ^b	150
Grizzly Ridge	2/29	35	9.8	11.7	9.5 ^a	2/29	1.75	2.10 ^b	14.05	10.90 ^b	128
Henrys Fork (A)				10.8	11.1 ^a						
Hewinta G.S.	3/1	34	9.8	7.4	7.5	3/1	0.89	--	13.44	--	--
Hickerson Park	3/1	30	8.7	5.3	5.4 ^b	3/1	0.81	1.11 ^a	8.61	7.34 ^b	117
Hole-in-the-Rock		NOT SCHEDULED									
Hole-in-the-Rock G.S.		NOT SCHEDULED									
King's Cabin (upper)	3/1	36	9.4	11.6	8.5	3/1	1.51	1.77 ^a	12.94	9.47 ^a	136
Middle Beaver Creek		NOT SCHEDULED									
Reynolds Park (A)				21.9	13.9 ^a						
Spirit Lake	3/1	39	11.5	10.3	10.1 ^b	3/1	1.72	2.03 ^a	12.57	11.26	111
Steel Creek Park	3/2	51	15.9	12.3	13.1 ^b	3/2	0.48	--	14.16	--	--
Trout Creek	2/29	32	8.3	11.4	8.5 ^a	2/29	1.34	1.84 ^a	9.29	9.11 ^a	101
DUCHESNE RIVER											
Atwood Lake (A)				--	16.9 ^a						
Brown Duck Ridge	2/29	60	19.5	18.8	15.8 ^a	2/29	2.70 ^a	--	20.09 ^a	--	--
Chepeta	2/29	40	11.5	13.0	9.7 ^a	2/29	2.00 ^a	--	12.90 ^a	--	--
Currant Creek	2/28	37	10.5	10.3	9.6 ^a	2/28	1.14	--	14.24	--	--
Daniels-Strawberry Summit	2/28	47	15.8	14.6	12.9	2/28	1.86	3.10	18.61	15.13	123
East Portal	2/28	47	14.2	12.8	10.2	2/28	1.95	3.08	20.78	14.22	146
Five Points Lake (A)				--	13.9 ^a						
Indian Canyon	2/27	38	10.5	14.3	10.7	2/27	1.07	2.18	12.67	10.87	116
Jackson Park	2/29	44	11.9	13.6	11.8 ^a	2/29	2.62	--	15.49 ^a	--	--
Lakefork Basin (A)				--	18.6 ^a						
Lakefork Mountain #1	2/29	36	9.8	11.0	9.5	2/29	1.36	1.86	12.75	10.54	120
Lakefork Mountain #3	2/29	23	5.5	6.4	5.9						
Lightning Lake (A)				--	20.5 ^a						
Mosby Mountain	3/1	33	8.4	10.5	8.4	3/1	1.46	2.06 ^a	12.58	11.14 ^a	112
Paradise Park	2/29	41 ^a	12.3 ^a	16.1	10.9	2/29	1.22	1.91 ^b	12.46	11.27	110
Rock Creek Ranch	2/29	27	7.5	8.0	6.5 ^a	2/29	1.11	--	11.40	--	--
Strawberry Divide	2/28	64	23.0	19.8	16.8	2/28	2.30 ^a	--	25.50 ^a	--	--

SNOW

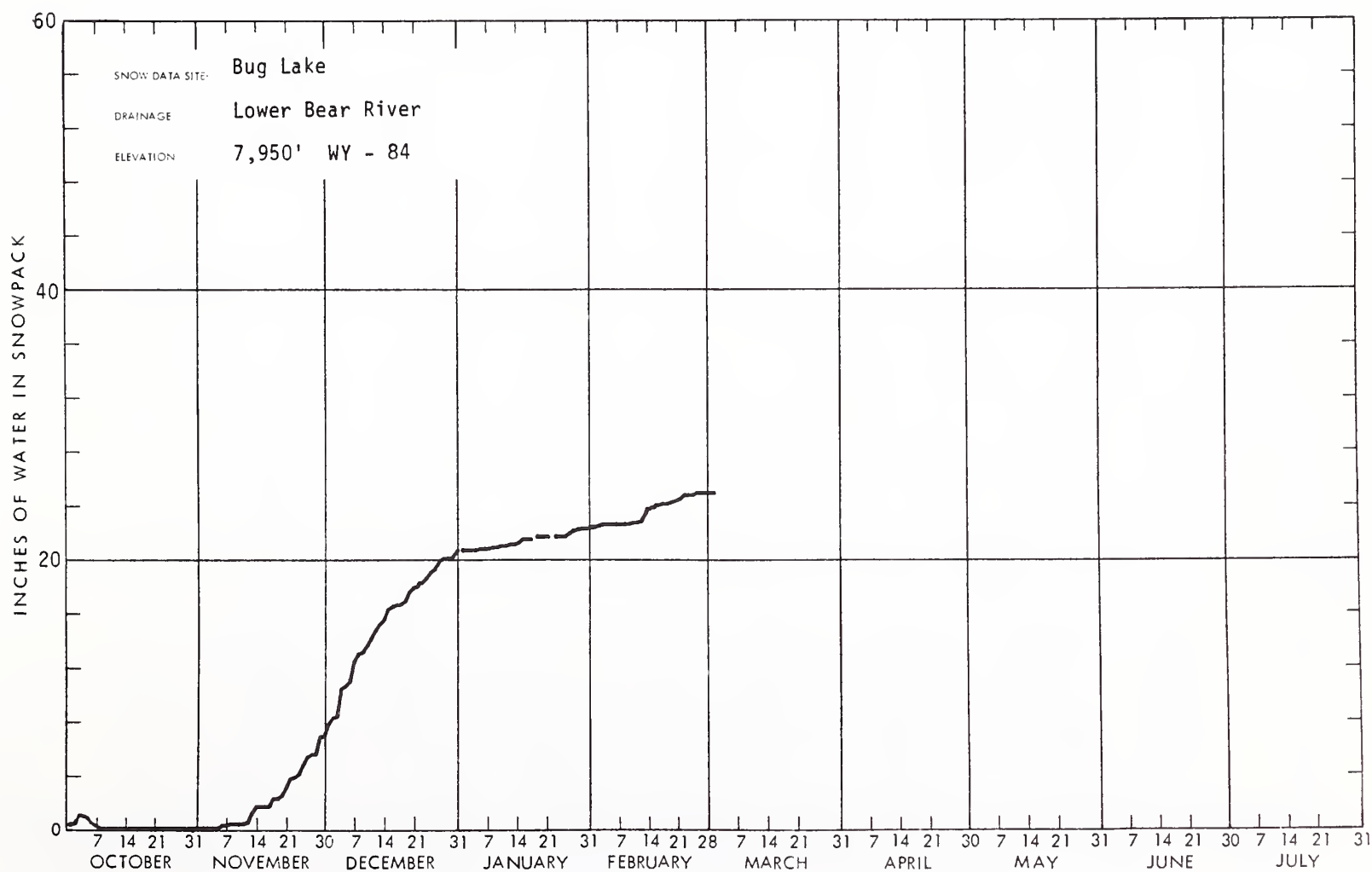
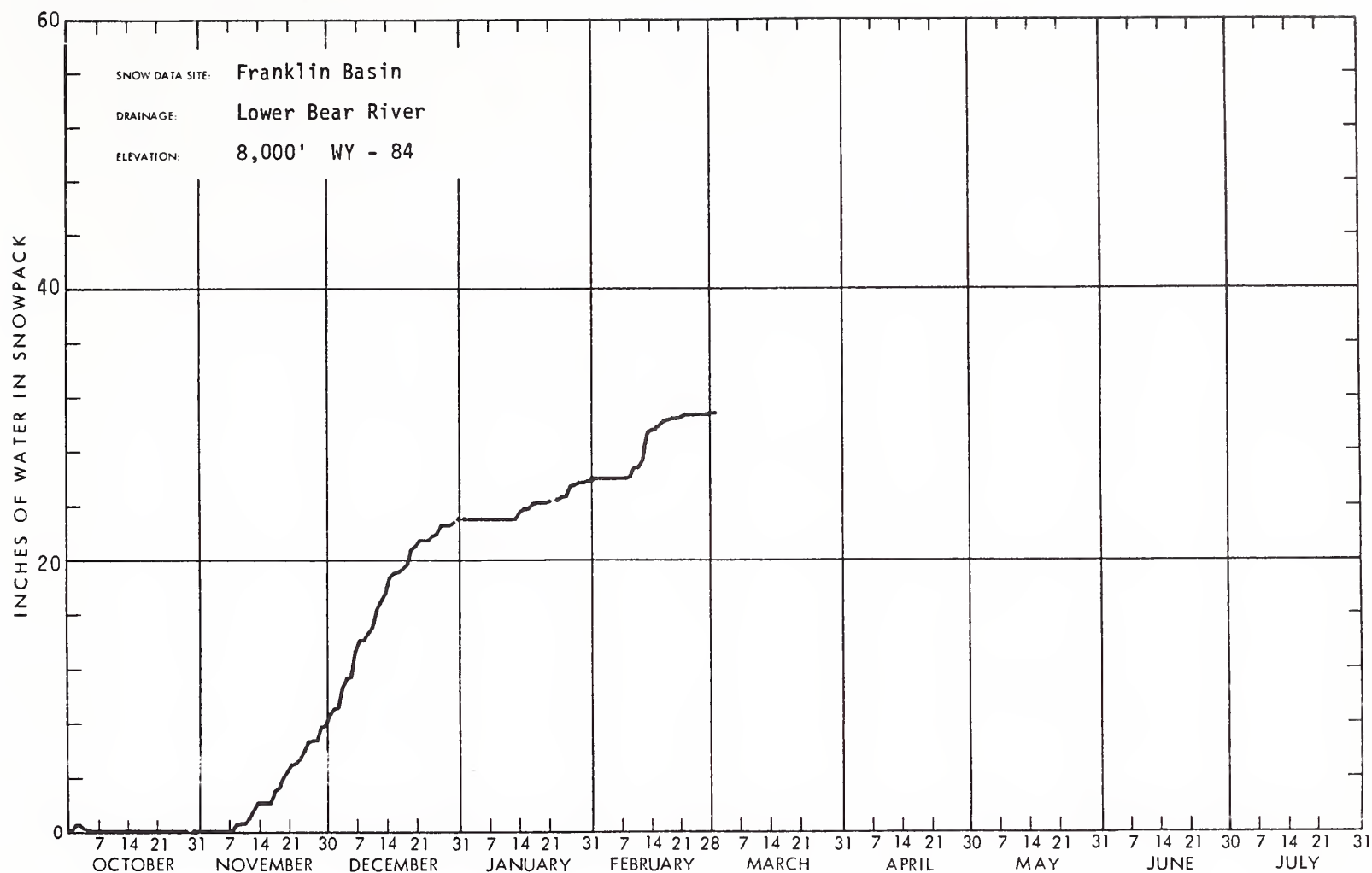
PRECIPITATION (Inches)

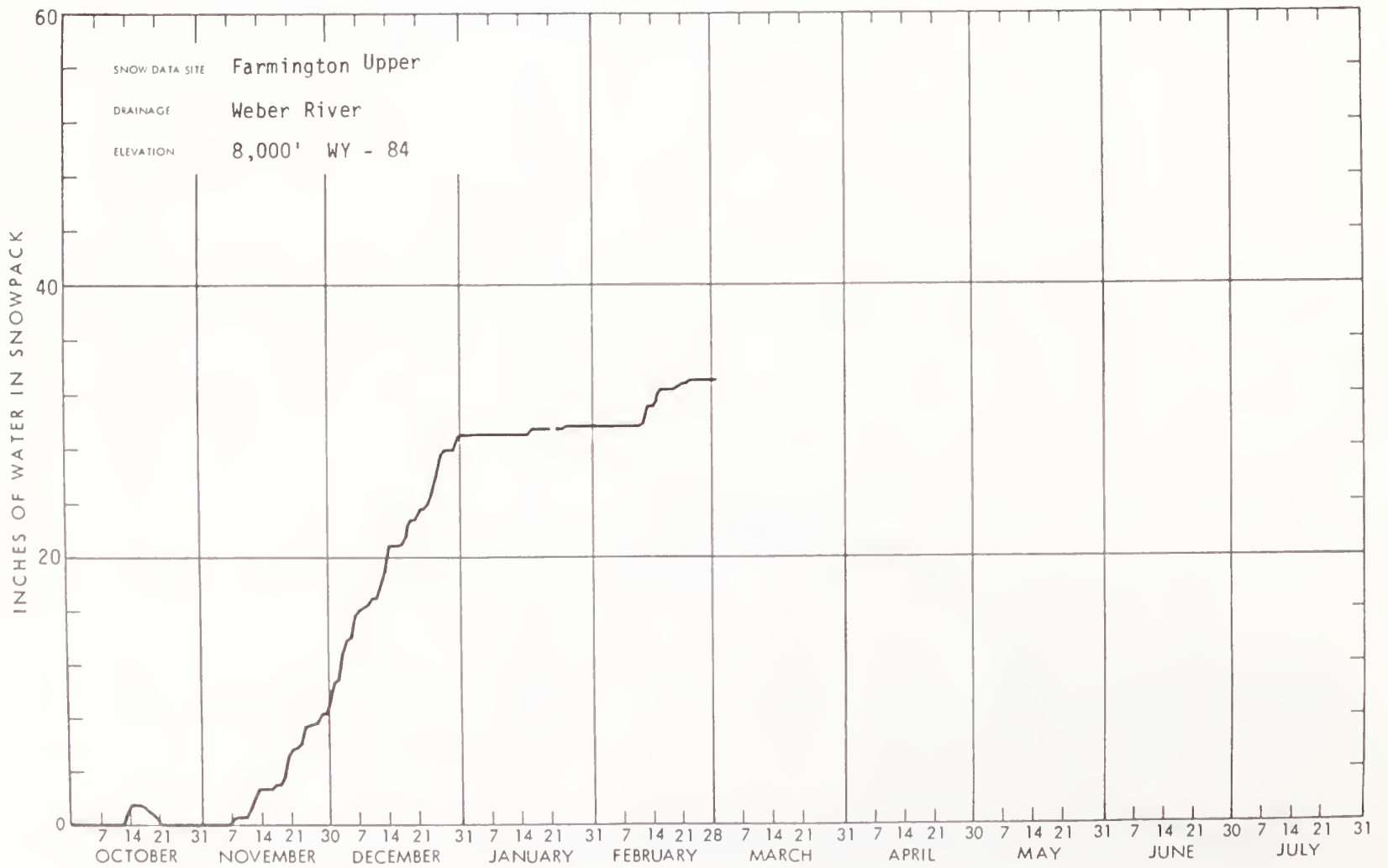
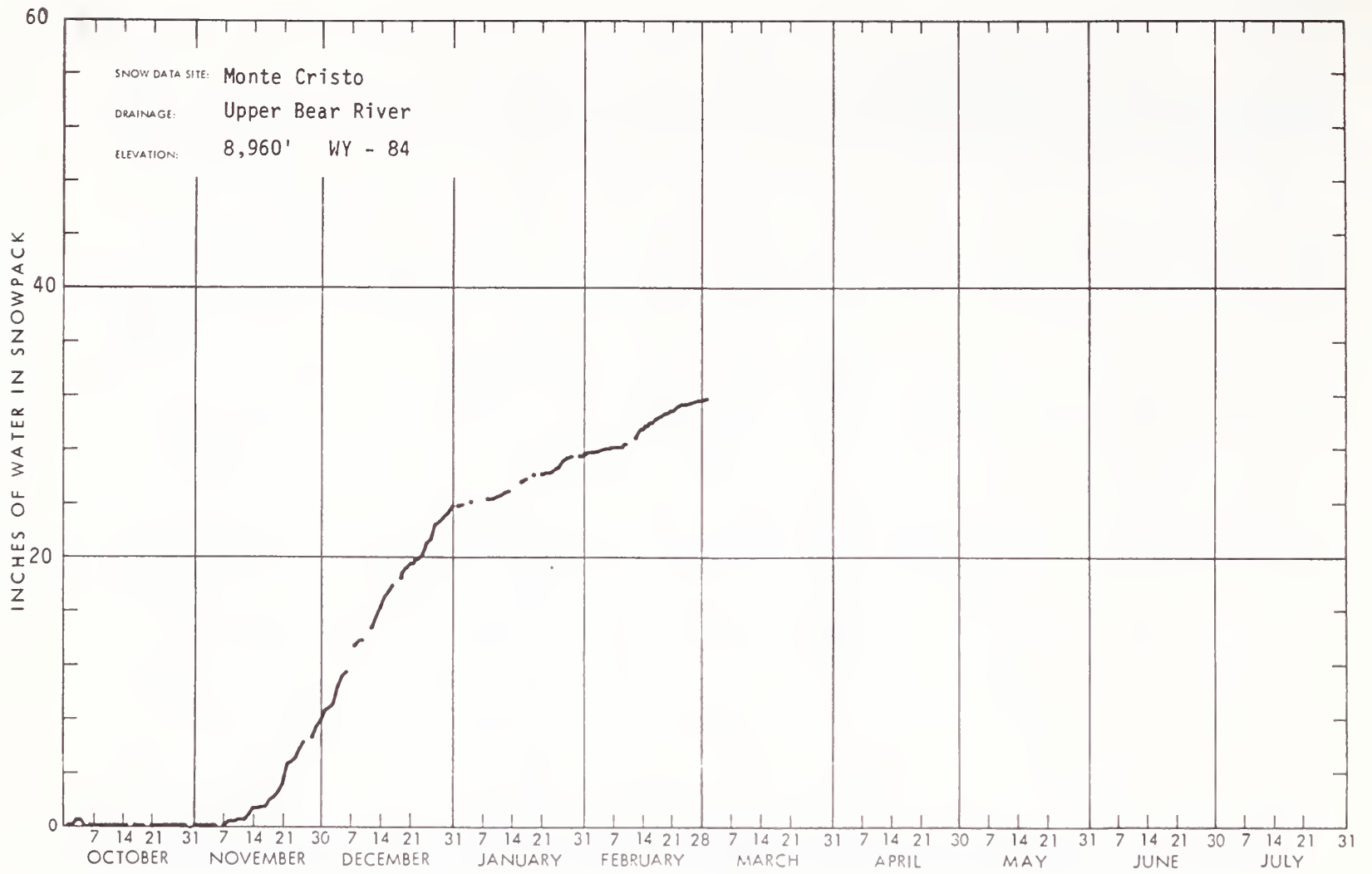
DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
				Last Year	Average †						
PRICE RIVER											
Ory Valley Divide Alternate	2/27	43	14.5	10.3	11.2 ^a						
Mud Creek	2/27	53	17.1	11.4	11.8	2/27	1.72	2.49	18.74	11.69	160
White River #1	2/27	48	16.0	12.6	11.9	2/27	1.37	--	16.64	11.08	150
White River #3	2/27	35	12.3	7.8	7.9						
SAN RAFAEL RIVER											
Buck Flat	2/26	64	22.8	17.7	14.4	2/26	2.33	3.21	22.88	14.5	157
Huntington-Horseshoe	2/27	78	31.8	28.0	19.9 ^a						
Orange Olsen	2/27	28	7.0	8.5	4.4 ^a	2/27	0.97	1.17	10.75	6.39	168
Red Pine Ridge	2/27	69	24.0	17.6	14.7	2/27	0.93	3.48	22.73 ^a	16.25	139
Seeley Creek R.S.	2/27	75	28.2	19.3	13.9	2/27					
Stuart R.S.	2/27	40	13.5	9.2	8.7 ^a	2/27	2.60 ^a	--	17.23 ^a	--	--
Upper Joe's Valley	2/27	48	15.4	11.4	9.3						
Wrigley Creek	2/26	46	13.9	12.3	9.7						
MUODY RIVER											
Black's Fork	2/26	55	18.8	14.1	11.2 ^a						
Dill's Camp	2/26	48	15.1	13.0	10.6 ^a	2/26	2.16	--	18.58	--	--
FREMONT RIVER											
Black's Flat-U.M. Creek	2/26	46	13.6	11.7	9.3	2/26	1.63	--	14.84	9.64 ^b	153
Oonkey Reservoir		NOT SCHEDULED									
Fish Lake	2/26	55	18.6	12.2	6.9	2/26	7.90 ^a	1.15	--	7.50	--
Johnson Valley	2/26	40	11.4	8.5	6.2						
SOUTHEASTERN UTAH DRAINAGES											
Buckboard Flat	2/23	38	11.5	13.9	11.2	2/23	1.55	--	16.77	15.18	110
Camp Jackson	2/23	35	10.1	17.4	11.5	2/23	1.05	--	13.88	14.27	97
LaSal Mountain (lower)	2/22	38	11.4	13.2	7.8						
LaSal Mountain (upper)	2/22	56	17.2	19.5	12.4 ^b	2/22	2.15	--	19.01	11.04	172
Monticello City Park	2/24	5	1.6	0.0	2.4 ^a						
UPPER SEVIER RIVER (South of Richfield, Utah)											
Box Creek	2/26	57	17.9	14.7	11.2	2/26	2.88	--	17.90	11.10	161
Bryce Canyon	2/28	20	4.4	7.9	4.7						
Castle Valley	2/24	48	14.1	17.1	11.5	2/24	2.77	--	17.03	11.12	153
Duck Creek R.S.	2/25	32	7.8	15.7	12.4	2/25	1.02	2.35 ^b	14.82	13.25	112
Harris Flat	2/25	18	4.1	11.5	8.4						
Kimberly Mine	2/24	64	19.7	15.7	12.8	2/24	1.96	3.18 ^b	19.18	14.38	133
Midway Valley	2/24	52	16.4	28.3	18.4						
Panguitch Lake	2/24	22	6.6	11.1	4.5	2/24	1.47	--	9.01	6.51 ^b	138
Squaw Springs	2/26	36	10.9	9.1	6.6						
LOWER SEVIER RIVER (Including San Pitch River)											
Beaver Dams	2/26	63	18.9	11.1	10.4 ^b	2/26	3.89	--	22.90	10.66	214
Farnsworth Lake	2/26	81	24.4	16.1	15.3	2/26	4.92	3.59	20.67	15.23	135
G.B.R.C. Headquarters	2/27	77	25.2	17.5	13.9	2/27	4.55	2.69	23.76	14.21	167
G.B.R.C. Majors											
G.B.R.C. Meadows	2/27	91	30.8	26.1	19.4	2/27	5.36	3.59	27.14 ^a	17.57	154
G.B.R.C. Oaks											
Gooseberry Reservoir						2/27	2.82	2.38 ^b	25.12	15.36	163
Gooseberry R.S.	2/26	57	16.5	10.0	10.1	2/26	3.73	2.38 ^b	17.45	9.87 ^b	176
Mammoth-Cottonwood Creek	2/27	73	27.8	21.7	18.1	2/27	1.80 ^a	--	26.90 ^a	--	--
Middle Fork		NOT SCHEDULED									
Mt. Baldy R.S.	2/26	91	32.3	23.5	19.8 ^b	2/26	3.12	--	20.43	13.76	148
Oak Creek	2/23	53	16.8	17.6	13.1 ^a	2/23	2.14	--	19.72	--	--
Pickle Keg Springs	2/26	79	25.7	17.4	13.2 ^a	2/26	5.60 ^a	--	26.68 ^a	--	--
Pine Creek	2/23	85	27.2	19.0	13.5	2/23	7.92	--	33.76	18.53	182
Ree's Flat	2/23	54	16.8	17.9	10.6 ^b	2/23	2.78	--	19.61	--	--
Shingle Mill	3/1	53	15.6	10.4	7.6 ^b	3/1	5.06	2.33 ^b	21.81	12.58	173
Thistle Flat		NOT SCHEDULED									

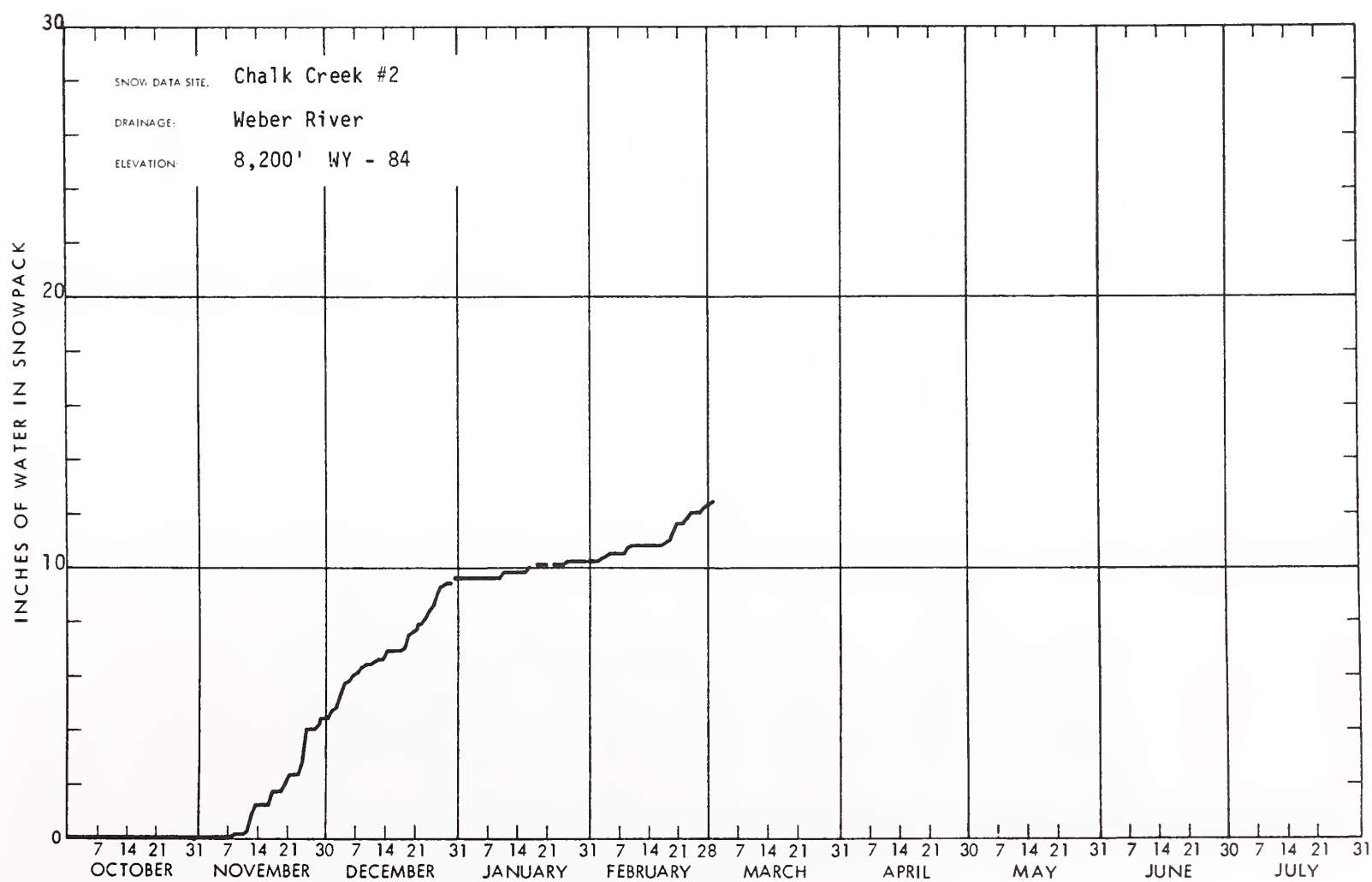
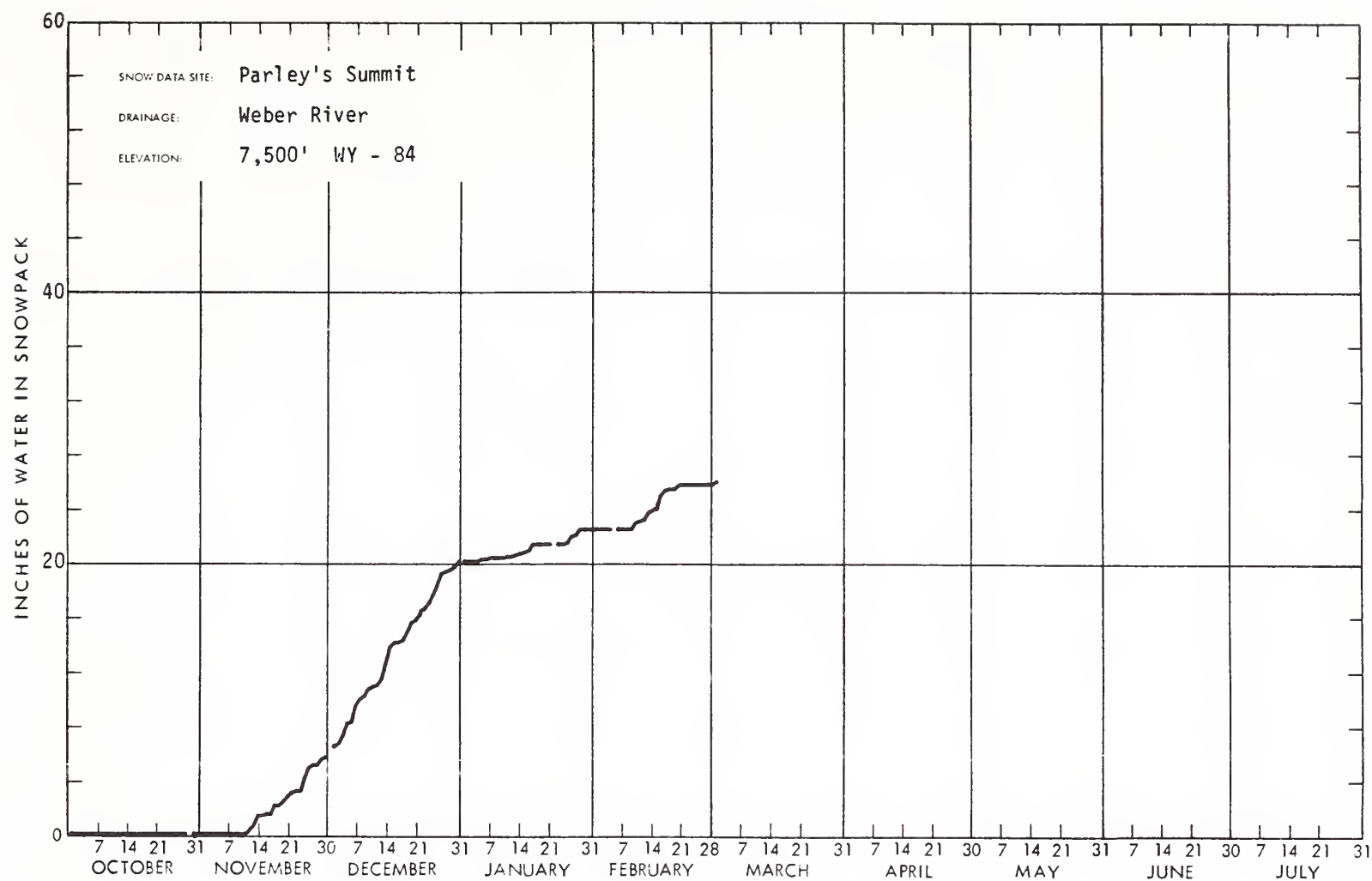
SNOW

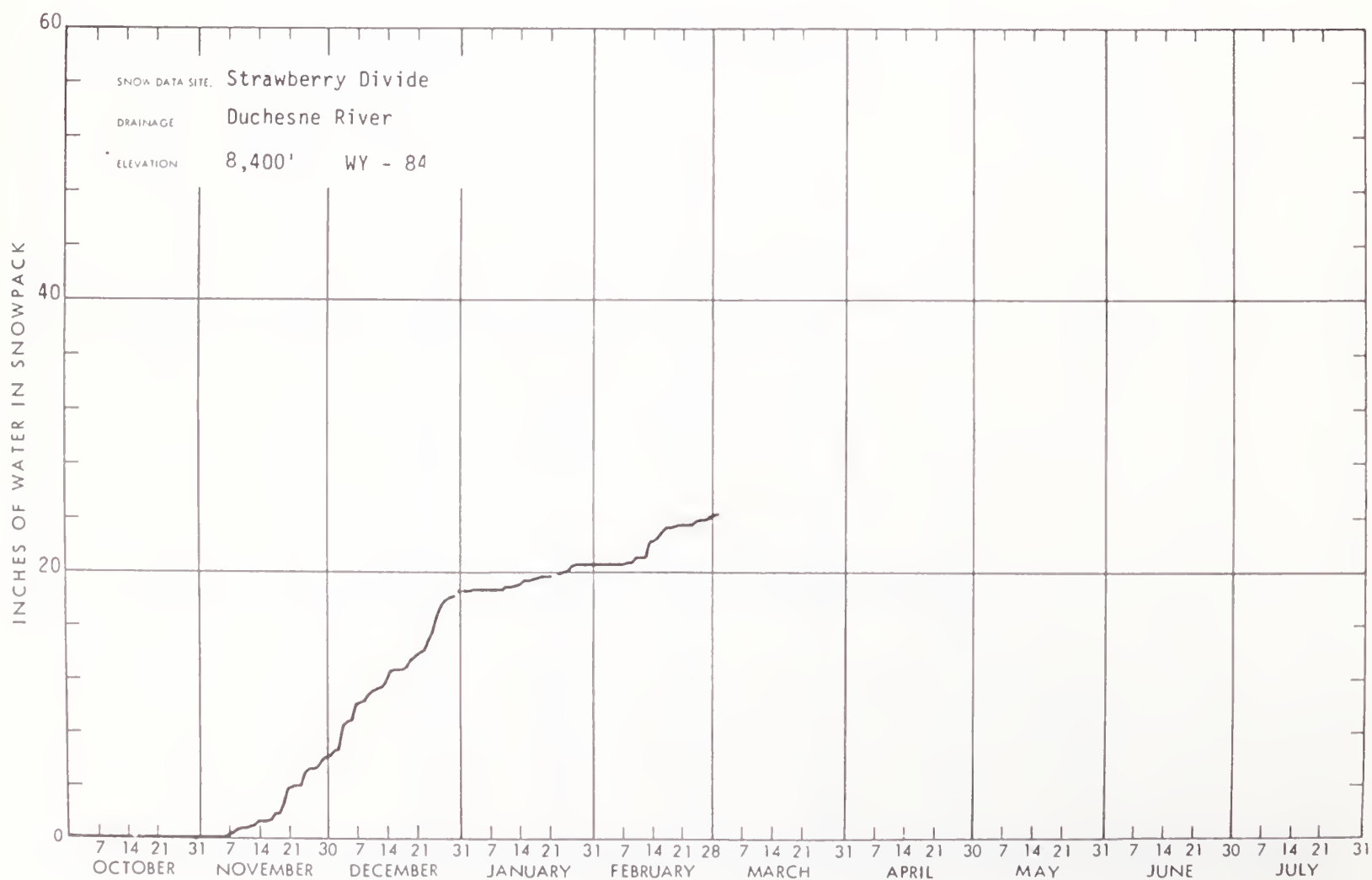
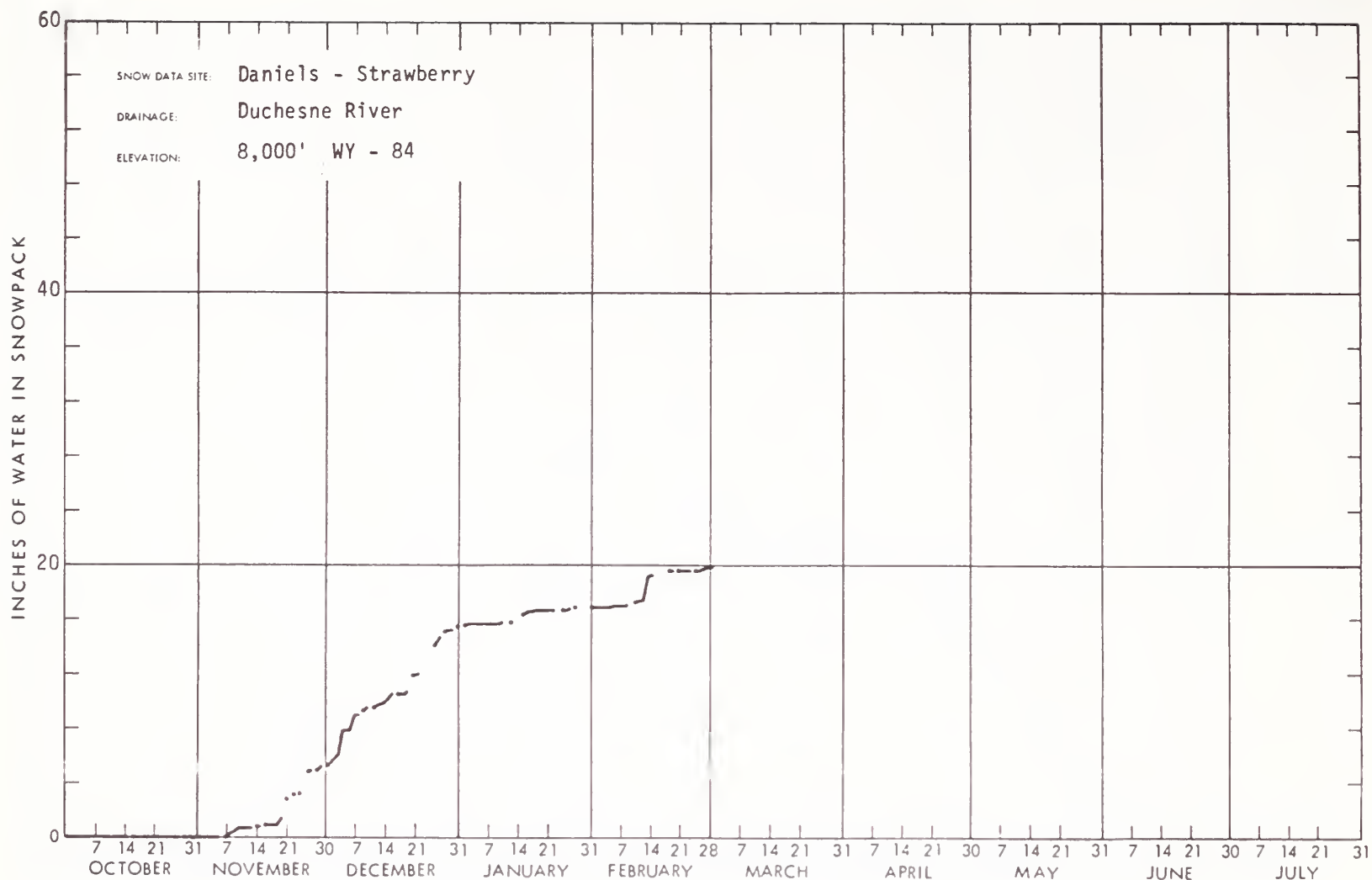
PRECIPITATION (Inches)

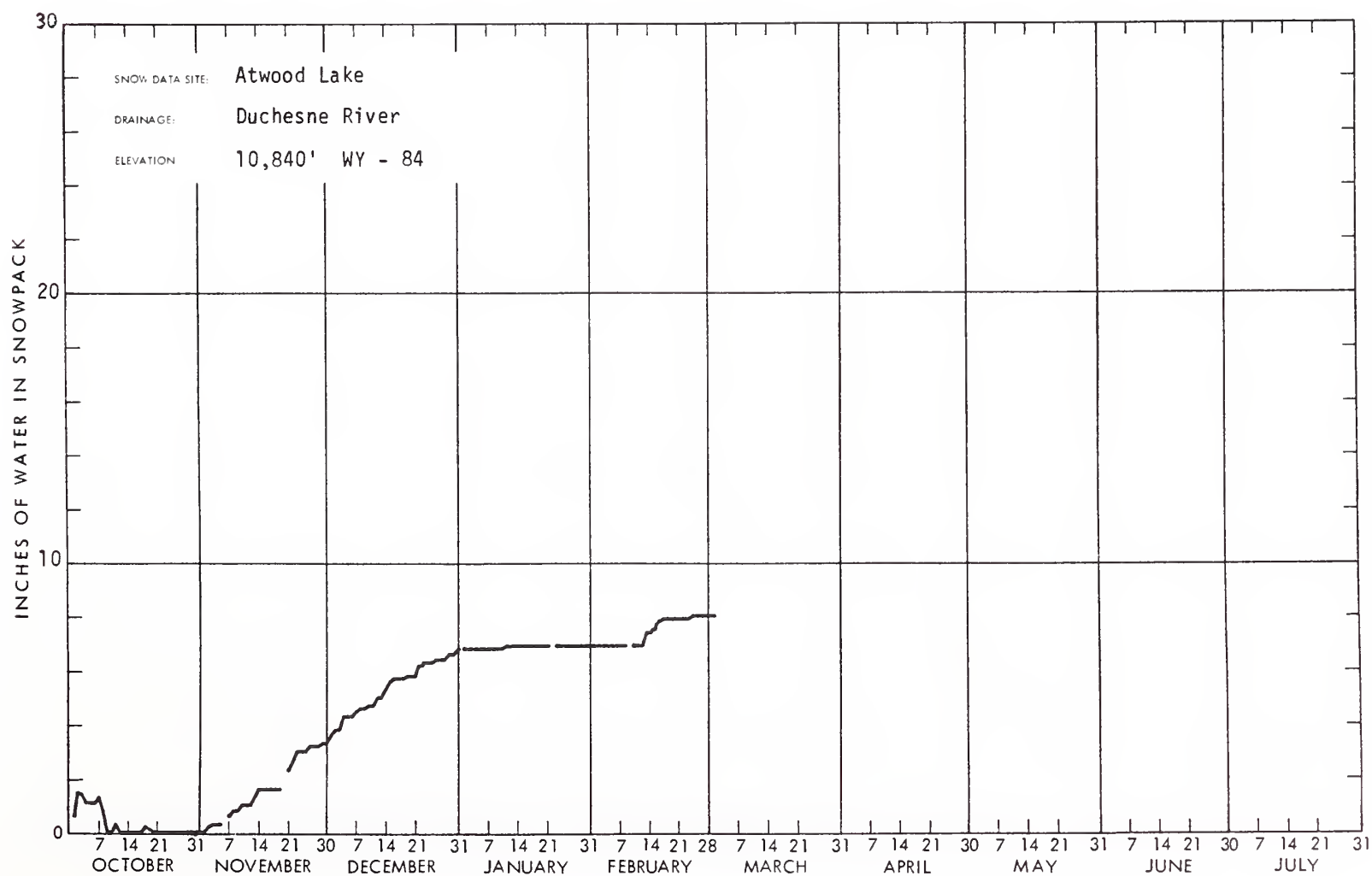
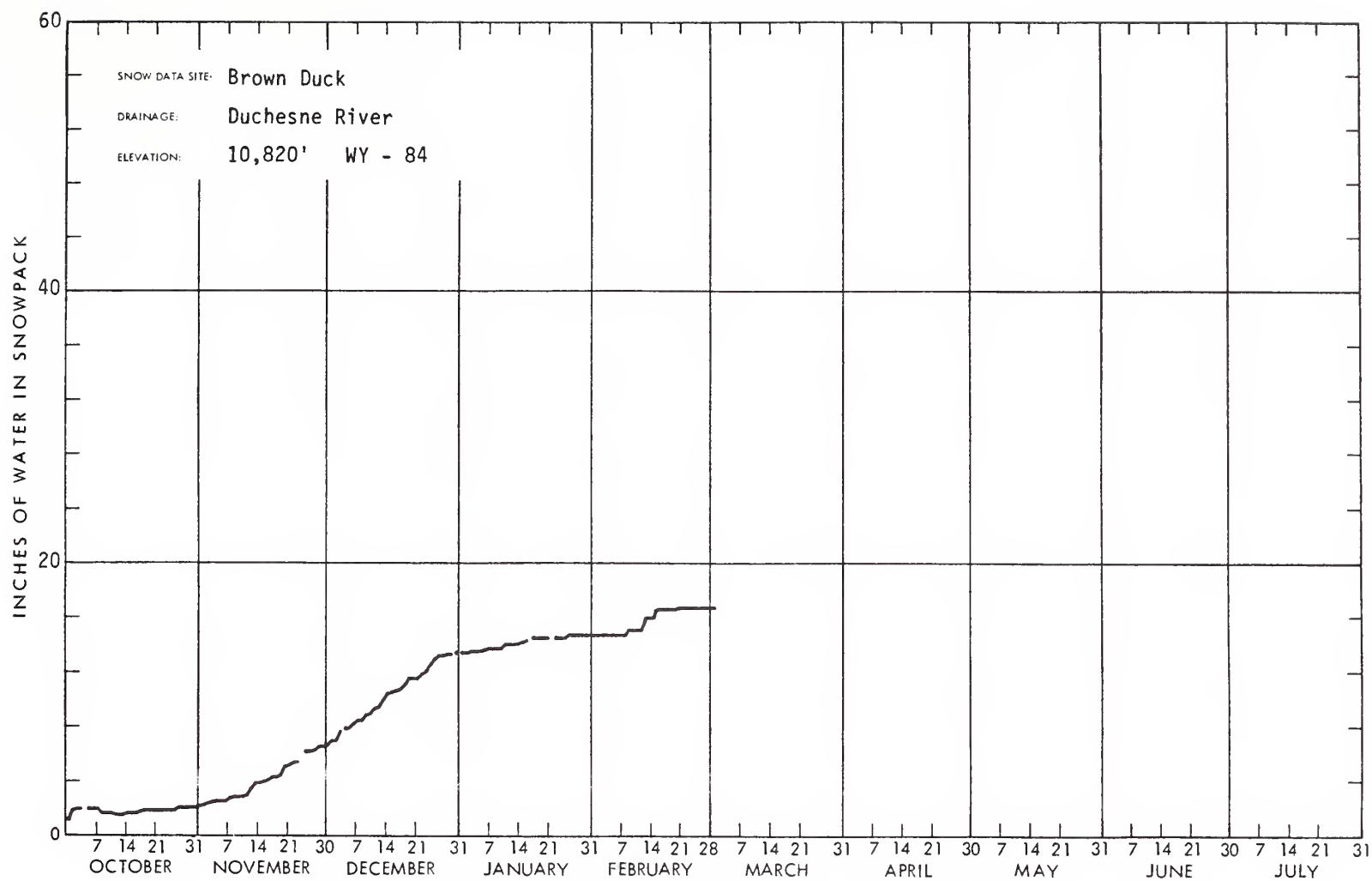
DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
				Last Year	Average †						
BEAVER RIVER											
Beaver Canyon Power House											
Beaver Race Track	2/28	3	0.7	0.0	0.6 ^a						
Big Flat	2/24	63	23.8	19.3	14.0	2/24	1.54	3.36	21.02	13.63	154
Merchant's Valley (upper)	2/24	49	16.3	14.9	11.1 ^b	2/24	1.91	2.73 ^b	17.71	12.33 ^b	143
Otter Lake	2/24	50	17.5	15.5	11.2						
PAROWAN CREEK											
Birch Crossing	2/27	36	9.7	8.0	6.8 ^b						
Brian Head	2/26	66	21.1	21.8	17.5 ^b						
Tall Poles	2/27	56	18.3	17.8	12.6 ^b	2/27	3.55	2.39 ^b	15.20	11.87 ^b	128
Yankee Reservoir	2/24	42	11.2	10.8	8.1	2/24	2.60	--	12.35	9.40 ^b	131
ENTERPRISE TO NEW HARMONY DRAINAGES											
Little Grassy Creek	2/24	1	0.1	2.8	4.4	2/24	0.73	--	11.25	12.33 ^b	91
Long Flat	2/24	20	5.1	9.5	6.2	2/24	1.74	--	6.32	9.23	68
COAL CREEK											
Cedar City Golf Course	2/27	1	0.1	0.0	0.1 ^a						
SUSC Ranch	2/27	28	8.3	13.5	8.9 ^b						
ESCALANTE RIVER											
Widtsoe-Escalante #3	2/25	32	8.7	11.6	9.6	2/25	0.96	2.08	11.75	9.67	121
VIRGIN RIVER											
Kolob-Crystal	2/24	52	16.0	26.2	16.8 ^a						
Long Valley Junction	2/25	3	0.9	7.1	5.3						
Webster Flat	2/24	39	11.1	22.4	15.6	2/24	3.10	3.53	17.09	15.15	112
a - Partly Estimated b - Average of past record in average period - less than 15 years + - 1963-77 15 year average period (A) - Aerial Marker Reading											

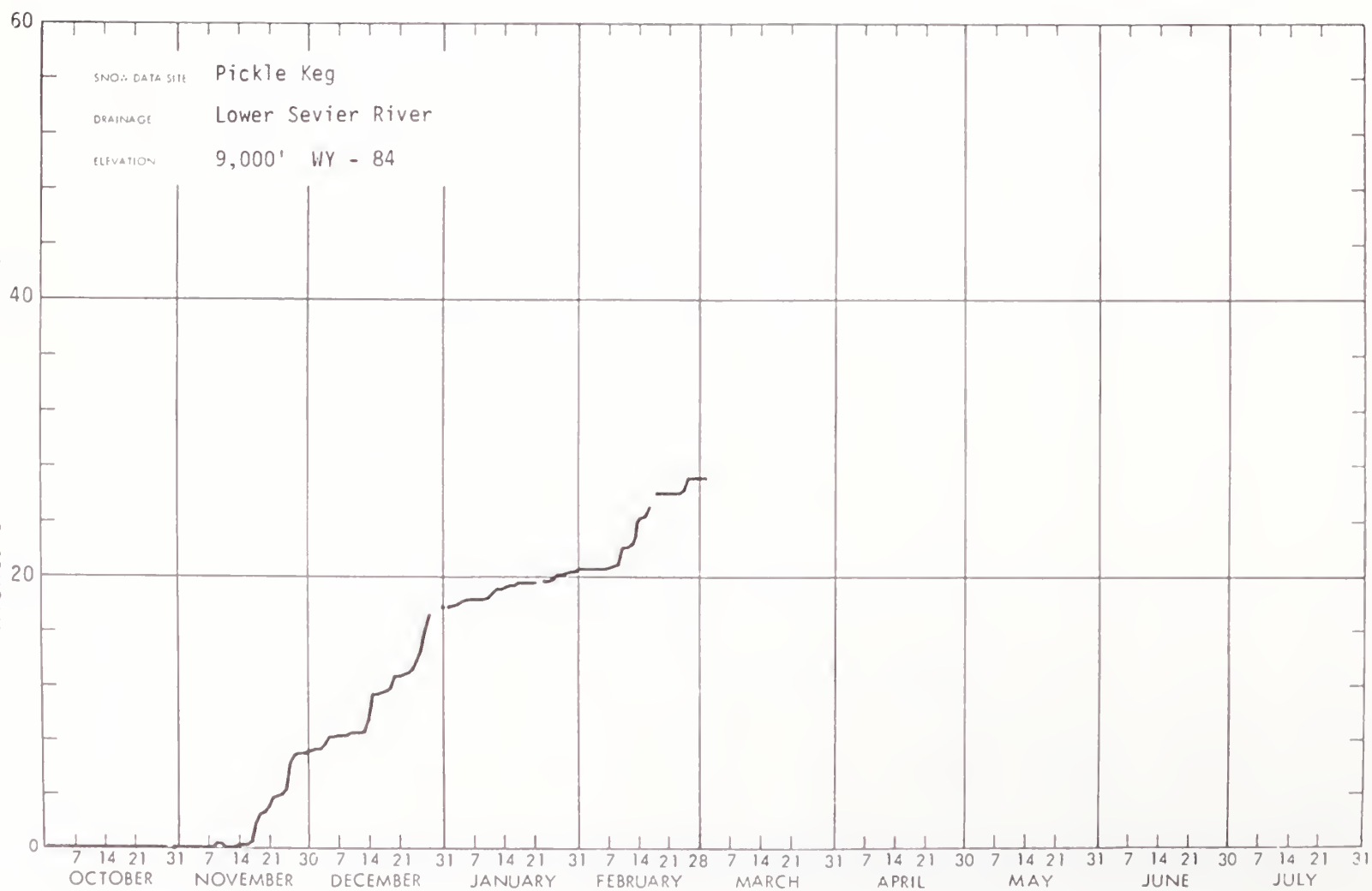
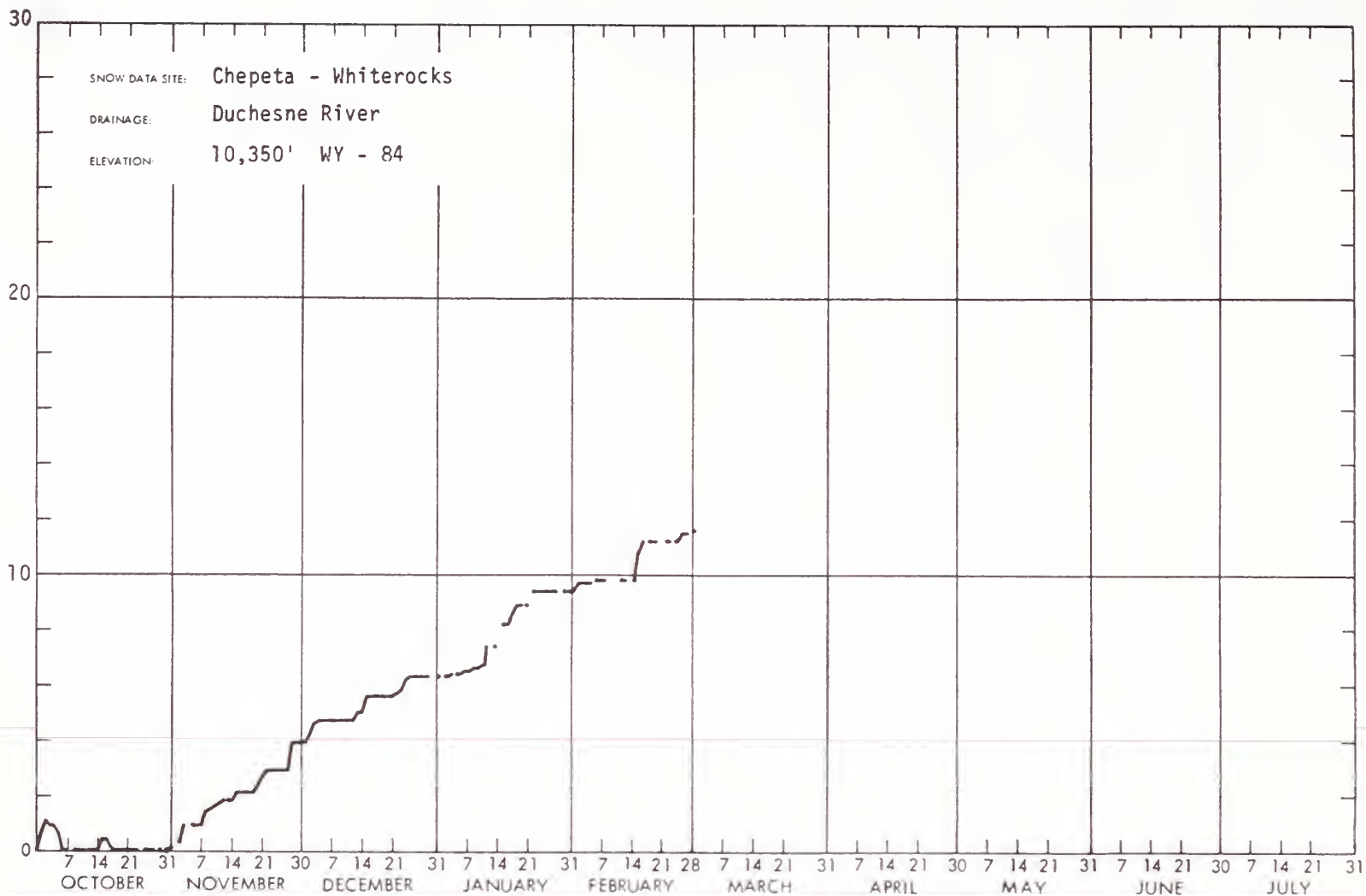


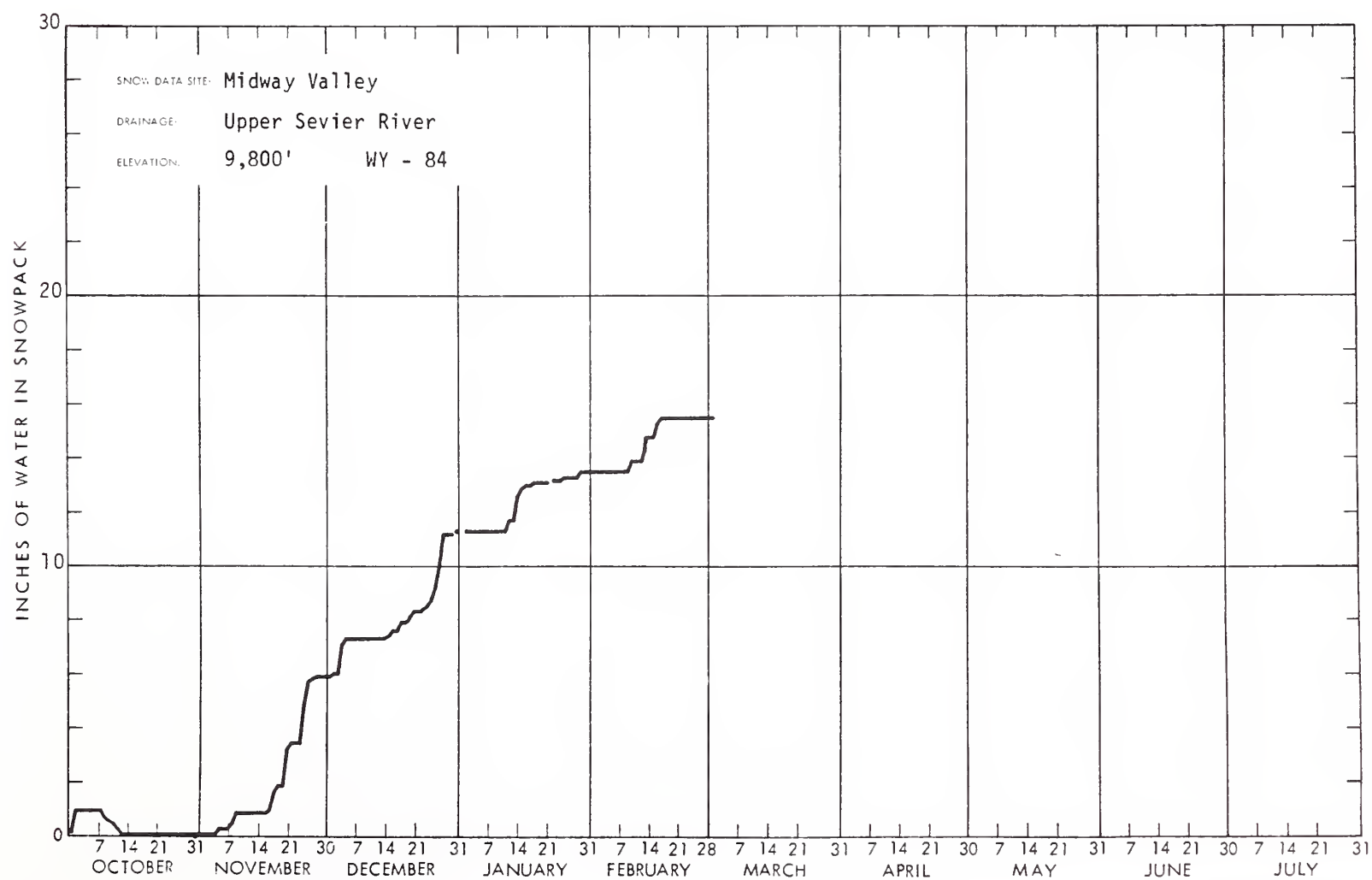
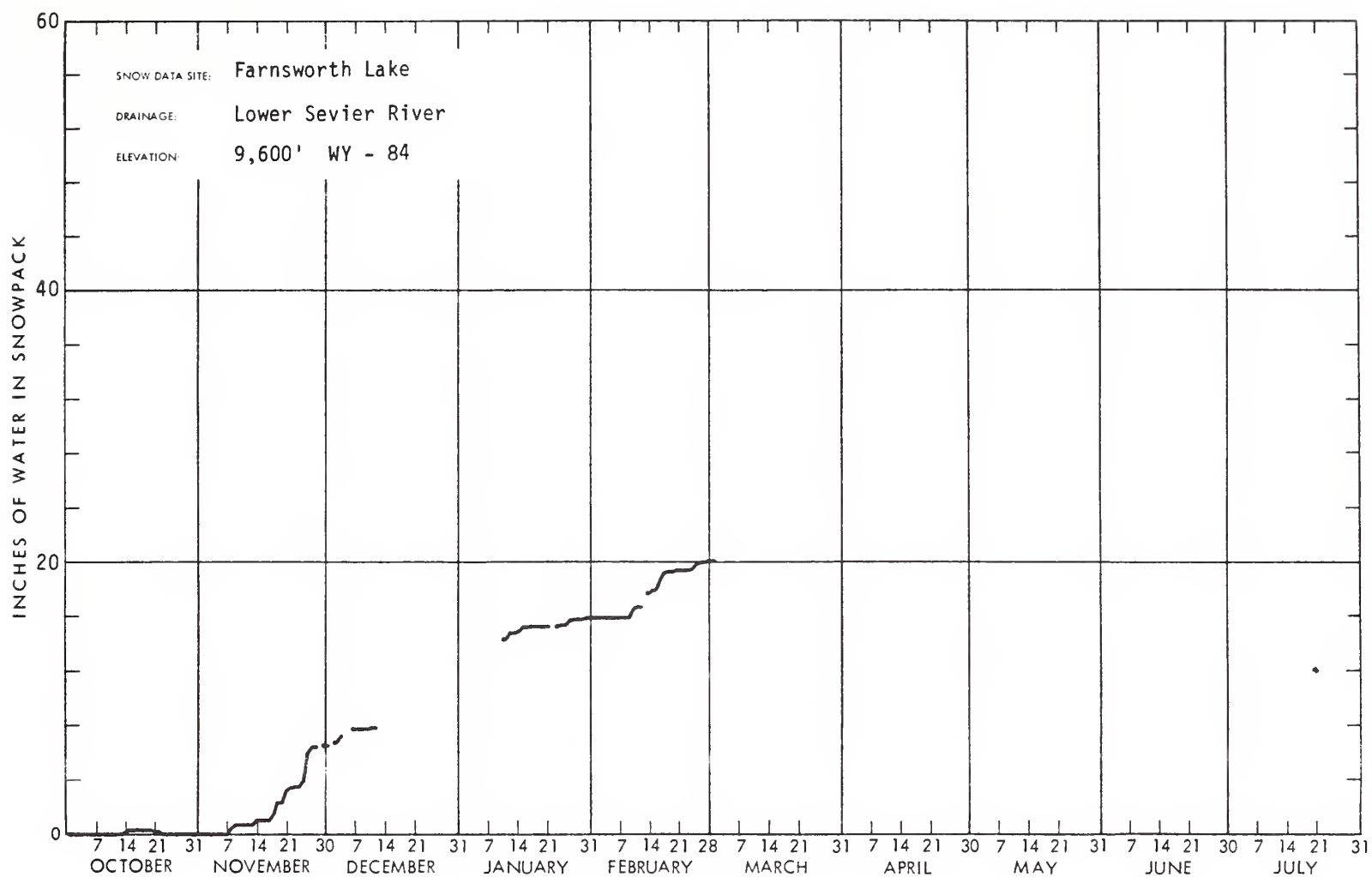












GREAT BASIN DRAINAGE

Number	State	Name	Section	Township	Range	Elevation
DUCHESNE RIVER						
4120P	U	Atwood Lake	13	4N	4W	10,840
309PST	U	Brown Duck Ridge	8	2N	6W	10,600
PST	U	Chapala-Whiterocks Lakes	3	4N	1W	10,350
324PST	U	Current Creek	26	1S	11W	8,000
233PST	U	Daniel-Strawberry Summit	20	2S	12W	8,000
77P	U	East Portal	36	7S	6E	7,560
269PST	U	Five Point Lake	28	4N	5W	11,000
41PST	U	Indian Canyon	2	11S	10E	9,100
12P	U	Jackson Park	25	3N	4W	10,600
25PST	U	Kennedy Lake	28	5N	3W	11,000
25PST	U	Limney Lake	28	5N	1W	10,500
10PST	U	Lakefork Mountain	2 & 3	10N	10W	10,200
12	U	Lakefork Mountain No. 3	20	2N	4W	8,400

Section	Location	Depth	Temperature	Direction	Speed
10-3	Lakefork Mountain	2 & 3	2N	5W	10,200
12	Lakefork Mountain No. 3	20	2N	4W	8,400

	U	29P5T	Lightning Lake	23	4N	8W	10,560
	U	P5T	Misty Mountain	33	3N	1E	9,500
	U	L7P5T	Cedar Park	17	4N	1E	12,000
	U	18P5T	Fleck Creek	21	3N	7W	17,400
	U	32P	Shadow Lake	29	3N	8W	10,150
	U	48P5T	Strawberry Divide	2	4S	12W	8,400
	U	35P	West Fork of the Duchesne	22	1N	11W	9,480
<hr/>							
			PRICE RIVER				
			Dry Valley Divide Alternate	14	11S	2E	8,100
	U	33MP	Wind Creek	4	12S	7E	8,600

U	White River No. 1	11	105	8E	8,550
21PST					

U	White River No. 3	30	105	8E	7.400
U	SAN RAFAEL RIVER				
U	Buck Flat	23	195	4E	9.400
U	Gooseberry Reservoir	75	135	5E	8.700
U	Huntington-Horshoe	12	145	9E	9.800
U	Red Pine Ridge	5	165	1E	9.200
U	Scotley Creek	25	175	4E	10.000
U	Stuart R. S.	8	155	7E	7.950
U	Upper Joe's Valley	21	165	6E	8.900
U	Wrightley Creek	27	195	9E	9.000

Location	Year	Age	Sex	Weight (kg)	Length (cm)	Wing (cm)	Tail (cm)	Bill (cm)	Foot (cm)	Middle toe (cm)	Claw (cm)
Muddy River											
Black's Fork	14	U		24	205	4E	9,200				
Dill's Camp	15PST	U		27	205	4E	9,200				
Fremont River											
Black's Flat	4PST	U		33	245	3E	9,400				
Donkey Reservoir	5	U		9	305	4E	9,800				
Fish Lake	3P	U		35	265	1E	8,700				
Johnson Valley	3P	U		24	235	2E	8,850				

SOUTHEASTERN UTAH DRAINAGES			
P	U	Buckboard Flat	3G 33S 22E 9,000
P	U	Camp Jackson	22 34S 22E 8,600
P	U	Lasal Mountain	22 34S 24E 8,800
PSTT	U	Lasal Mountain (Upper)	22 34S 24E 8,800
PSTT	U	Monticello Park	22 34S 23E 7,050
ESCALANTE RIVER			
3PST	U	Widdsee-Escalante No. 3	22 34S 1W 9,500

U	Kolob-Crystal	2	38S	11W	9,250
U	Lone-Mountain	22	38C	6W	7,500

[illegible]

LEGEND

Numbering System (as example)

10J7	Snow Course Only.
10J7A	Snow Course and Precipitation Caps.
10J7M	Snow Course and Aerial Station.
10J7MA	Snow Course and Aerial Marker.
10J7MAA	Snow Course, Soil Moisture Station and Aerial Marker.
10J7MAA-P	Snow Course, Soil Moisture Station and Precipitation Caps.
10J7a	Aerial Marker Only.
10J7P	Storage Precipitation Caps Only.
10J7PST	Snow-Pile and Temperature.
10J7PST	Snow-Pile and Temperature.
10J7PST	Snow-Pile and Temperature.

Agencies Cooperating in Utah Snow Surveys

U. S. GOVERNMENT AGENCIES

U. S. Department of Agriculture
Soil Conservation Service
Forest Service
U. S. Department of Commerce
NOAA, National Weather Service
U. S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service

STATE AGENCIES

Utah State University
Utah State Department of Natural Resources
Division of Wildlife Resources
Division of Water Resources
Division of Water Rights
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

MUNICIPALITIES

Manti
Salt Lake City

ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Central Utah Conservancy District
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association
Weber River Water Users Association
Weber Basin Conservancy District

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